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PERSONAL.

Mr. Allen F. Gill has been appointed City Engineer of Spokane, Wash.

Mr. H. A. Turner has been appointed Chief Engineer of the Tennessee Coal, Iron & R. R. Co.

Mr. E. C. Hawkins, C. E., has resigned as General Manager of the White Pass & Yukon Route.

Mr. A. Foster has been elected to succeed Mr. Robert S. Towne as President of the Mexican Northern R. R.

Mr. William B. Patton, Civil Engineer, was married on Sept. 5 to Miss Lydia Mishler, both of Duluth, Minn.

Mr. C. S. Currier, who has been City Engineer of Barre, Vt., since the incorporation of that city, has resigned.

Mr. E. R. Head has been elected President of the newly-organized Board of Water Commissioners of Kenosha, Wis.

Mr. G. H. Peck, Superintendent of the Water-Works at Lestershire, N. Y., has resigned to accept a position at Endicott, N. Y

Prof. E. Haviland, Jr., has been appointed to the Chair of Civil Engineering at the Clarkson School of Technology, Potsdam, N. Y.

Mr. W. A. Booker, who has been City Engineer of Rawlins, Wyo., during the construction of the sewerage system in that place, has resigned.

Mr. Peter Boyd has been appointed General Superintendent of the Benwood & Wheeling Connecting Ry., with headquarters at Pittsburg, Pa.

Mr. A. C. Arend, C. E., has resigned his position with the Pennsylvania Steel Co., to accept one with Messrs. Heyl & Patterson, of Pittsburg, Pa.

Mr. Edson M. Scofield, Assoc. M. Am. Soc. C. E., Manager and Engineer of the Youngstown Branch of the American Bridge Co., has resigned.

Mr. W. H. Douglas, Manager of the Montreal Park & Island Ry., has resigned to accept a similar position with the Street Railway Co. of Akron, O.

Mr. M. J. Caples has been appointed Engineer of Maintenance of Way of the Columbus, Sandusky & Hocking R. R., with headquarters at Columbus, O.

Mr. T. B. Coppage has been appointed Superintendent of the Arkansas Southern R. R., with headquarters at Ruston, La., succeeding Mr. J. M. Walsh, resigned.

Mr. A. M. Patitz, of Milwaukee, Wis., has been appointed Consulting Engineer of the new water-works and sewerage system to be installed at Stanley, Wis.

Mr. Crawford Lindesay, Assistant Engineer to the Durban Town Council, Natal, has been appointed Engineer of the Borough of Salisbury, Rhodesia, South Africa.

Mr. Byron I. Cook, Superintendent of the Water-Works Department of Woonsocket, R. I., has resigned and is succeeded by Mr. Edward W. Kent, Civil Engineer.

Mr. T. F. Whittlesey, who for the past eight years has been General Superintendent of the Toledo & Ohio Central and the Kanawha & Michigan railways, has resigned.

Mr. J. W. Watters, formerly Master Mechanic of the Louisville & Nashville Ry., at Anniston, Ala., has been appointed Master Mechanic of the Georgia R. R., at Augusta, Ga.

Mr. Frank J. Llewellyn has been appointed Manager of the Contracting Department of the American Bridge Co., and will have charge of the entire Western Division, with headquarters at Chicago.

Mr. Winter L. Wilson, who for several years has been instructor in Civil Engineering at Lehigh University, has been elected Professor of Civil Engineering at the Tulane University of Louisiana, in New Orleans.

Mr. George D. Evans, formerly Manager of the Lisbon, O., works of the American Tin Plate Co., has resigned to become Manager of the new mill now being built by the Cornahan Tin Plate & Sheet Co., at Canton, O.

Mr. F. P. Gutelius, who for some time past has been Engineer in charge of the Canadian Pacific branch lines of the Pacific Division, has been promoted to the position of Engineer of Maintenance of Way of the entire system.

Mr. W. S. Barstow, M. Am. Inst. E. E., who for the past 12 years has been connected with the Edison Electric Illuminating Co., of Brooklyn, and its successor, the Kings County Gas, Electric Light & Power Co., has opened an office as Consulting Engineer at 11 Broadway, New York city. Mr. Barstow is a graduate of Columbia University, class of 1887.

Mr. G. R. Joughins, Mechanical Superintendent of the Intercolonial Ry., has resigned, and is succeeded by Mr. T. E. Muhlfeld, late of the Grand Trunk Ry., who assumes the title of Superintendent of Motive Power & Machinery.

Mr. A. J. Nelles, Manager of the Hamilton, Grimsby & Beamsville Electric Ry., has resigned. He has been connected with the company for the past six years, and prior to that was Manager of the Toronto, Hamilton & Brantford Ry. at Brantford, Ont.

Mr. Alfred Baker, General Manager of the electric traction system operated by the London County Council, and Electrical Engineer Rider, of the same municipal body, are now in New York city, making their stopping place the Hotel Albemarle, 24th St. and Broadway.

Mr. J. T. Agnew, Vice-President and General Manager of the Merida Gas Co., of Yucatan, and a Director of the Merida Well Co., is now in New York city. While in New York Mr. Agnew will place large orders for piping, etc., in connection with these companies. He will make his headquarters at the office of Barnes Brothers, Commercial Building, 20 Broad St., New York.

Mr. Theodore Knowlton, Civil Engineer, was married on Sept. 12 to Miss Catherine Conde, both of Watertown, N. Y. Mr. Knowlton is Assistant Secretary and Treasurer of the St. Regis Paper Co. He was formerly associated with Michael Haney in the construction of the Crow's Nest Pass R. R. in Alaska, and later was in charge of the hydraulic excavation and canal work at the plant of the St. Regis Paper Co.

Prof. Asaph Hall was elected President of the American Association for the Advancement of Science at the annual convention held at Denver, Colo., during the last week of August. Professor Hall has for the past five years been Professor of Astronomy at Harvard University, and prior to becoming a member of the faculty of that university he was on the staff of observing astronomers at the Government Naval Observatory.

OBITUARY

Mr. E. J. Duchesnay, Assistant General Superintendent of the Pacific Division of Canadian Pacific R. R., was killed by a falling rock while superintending the work of putting out a fire in a tunnel on the line near Vancouver, B. C., on Sept. 4. Mr. Duchesnay was 47 years of age.

Mr. Patrick Touhy, for the past seven years Superintendent of the Denver Union Depot Co., died at Denver, Colo., on Sept. 3. Mr. Touhy was born in Ireland in 1839. He entered the service of the Union Pacific R. R. in 1868 as Assistant Superintendent of the Colorado Division and was subsequently made Superintendent of the Colorado and New Mexico Division.

Mr. George W. Carpenter, who for 36 years was Superintendent of the water-works at Albany, N. Y., died last week in that city at the age of 90 years. Mr. Carpenter was at the age of 17 appointed as Assistant Engineer in the Government service. Three years later he was made City Surveyor of Albany, which position he held for 24 years. He was then appointed Superintendent of the water-works and continued at the head of that department until 1891.

ENGINEERING SOCIETIES.

COMING MEETINGS.

ENGINEERS' CLUB OF PHILADELPHIA.
Sept. 21. "The Protection of Lowlands Against Tidal Overflow." Secy., L. F. Rondinella, 1122 Girard St., Philadelphia.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Sept. 25 (postponed from Sept. 18). "Antecedents of the Septic Tank." Secy., Chas. Warren Hunt, 220 West 57th St., New York city.

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.
Sept. 25 and 26. Annual meeting at Niagara Falls, N.Y. Secy., C. J. H. Woodbury, Boston, Mass.

NEW YORK RAILROAD CLUB.
Sept. 26 (postponed from Sept. 19). "Brakes in Railroad and Street Car Service." Secy., W. B. Yereance, Brooklyn, N. Y.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 1 to 4. Annual meeting at Niagara Falls, N. Y. Secy., D. L. Fulton, Allegheny, Pa.

AMERICAN INSTITUTE OF ARCHITECTS.
Oct. 3 to 5. Annual meeting at Buffalo, N. Y.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.
Oct. 8-10. Annual meeting at Washington, D. C. Secy., J. B. Dickson, C. & N. W. Ry., Sterling, Ill.

MEMPHIS ENGINEERING SOCIETY.
Oct. 8. "Levee Districts of Arkansas and Missouri." Secy., J. H. Weatherford, Memphis, Tenn.

RAILWAY SIGNALING CLUB.
Oct. 8 and 9. Annual meeting at Buffalo, N. Y. Secy., C. O. Tilton, C., M. & St. P. Ry., W. Milwaukee, Wis.

AMERICAN STREET RAILWAY ASSOCIATION.
Oct. 9 and 11. Annual meeting in New York city.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 15. Annual meeting at Atlanta, Ga. Secy., S. F. Patterson, B. & M. R. R., Concord, N. H.

AMERICAN SOCIETY OF RAILROAD SUPERINTENDENTS.
Oct. 16. Annual meeting at Buffalo, N. Y. Secy., C. A. Hammond, Mount Vernon, N. Y.

ROADMASTERS' AND MAINTENANCE-OF-WAY ASSOCIATION.—The 19th annual convention of the association will be held in Washington, D. C., Oct. 8-10, 1901. Committees have been appointed to report on the following subjects: "Tie Plates," J. C. Hechler, D. & R. G., Pueblo, Colo.; "Does Chemical Treatment of Ties Increase the Hardness of the Wood and the Holding Power of the Spike?" J. C. Rockhold, S. F. & S. J. V., Stockton, Cal.; "Surfacing Track," M. Sullivan, M. C. R. R., Niles, Mich.; "Tamping of Ties," R. P. Collins, N. Y., N. H. & H., Readville, Mass.; "Burned Clay Ballast," William Shea, C. M. & St. P., Blakesburg, Ia.; "Are the Best Results Obtained From the Use of Broken or Square Joints, on Both Double and Single Track?" L. Bradley, A., T. & S. F., Emporia, Kan., and F. J. Allen, C., B. & Q., Aurora, Ill.; "Results Obtained From the Use of 45 and 60-Ft. Rails," F. R. Coates, Chief Engineer, C. G. W., St. Paul, Minn.; "Ballasting," W. E. Emery, C. & N. W., West Chicago, Ill.; "The Rail," W. T. Manning, Consulting Engineer, B. & O., Baltimore, Md. Mr. J. B. Dickson, Sterling, Ill., is secretary of the association.

NEW PUBLICATIONS.

ADMINISTRATION REPORT ON THE RAILWAYS IN INDIA.—By F. R. Upcott, Secretary to the Government of India, Public Works Department (Railways). Published by the Government, Simla, India. Paper; 4to.; pp. 495.

In previous years this report has been issued in the form of two large volumes, published six months apart, but by order of the government this has been curtailed and the whole report for 1900 condensed in one volume. The "official year," ending with March 31, has also been abandoned, and all figures will in future be given for each calendar year. The report covers construction and equipment, with detailed tabular statements of traffic and financial conditions.

PROCEEDINGS OF THE WESTERN RAILWAY CLUB for the Year 1900-1901. Published by the Club, 667 Rookery Building, Chicago, Ill. Cloth; 6 × 9 ins.; pp. 483.

The Western Railway Club deserves to be complimented upon its enterprise in issuing this neatly bound volume, containing the entire proceedings for the year 1900-1901. All the railway clubs, as many of our readers are aware, issue monthly pamphlets containing verbatim reports of the papers and discussions, but the Western Club is the first to collect these in an annual publication. We may add further that the quality of the matter between the covers of the volume is likewise deserving of high praise. It compares very well, in fact, with the productions of some much larger and more noted engineering societies whose members are taxed four to eight times as much in the way of annual dues as are the railway club members.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

HAND-POWER ROCK DRILLS.—H. D. Crippen, New York, N. Y. Paper; 6 × 9 ins.; pp. 24; illustrated.

This pamphlet describes and illustrates the application of the Jackson hand-power rock drill to mining, tunneling, quarrying and other work where rock drills are required. The construction of the drill is described, prices of drills and parts are given and numerous testimonials from users are presented.

CABLE STAY FENCE.—The Bowen Cable Stay Fence Co., Norwalk, O. Paper; 9 × 4 ins.; pp. 28; illustrated.

The Bowen stay-fence machine puts on the stays for a wire fence with any horizontal spacing. It weighs only 45 lbs., and costs $20, including a combined reel and wire-straightener, a wire-cutter and a tie-wire bender. The catalogue will tell you how these look. This company also furnishes the Monarch post-hole auger, wire, and other appliances for fence making.

PUMPING MACHINERY.—The Hill Machine Co., Anderson, Ind. Paper; 6 × 9 ins.; pp. 52; illustrated.

Most of the machinery is for deep-well pumping, and includes vertical pumps, well cylinders and valves, working barrels, etc. Horizontal pumping engines and boiler feed pumps are also included. Prices and dimensions are given, and there are tables of power consumption for pumping, pump capacities, etc. Sectional drawings illustrate the construction of the pumps.

BOILER RIVETS.—Champion Rivet Co., Cleveland, O. Paper; 7 × 4¼ ins.; pp. 67; illustrated.

This pamphlet contains a report of a series of tests made on rivets and rivet steel for the company named, and also reprints the specifications for boiler rivet steel adopted by the Association of American Steel Manufacturers and those of the British Admiralty, Lloyds, Register, the British Corporation for the Survey and Registry of Shipping, and the United States Navy. Several useful tables conclude the pamphlet.

MOTOR-DRIVEN MACHINERY.—Northern Electrical Manufacturing Co., Madison, Wis. Paper; 7 × 10 ins.; pp. 101; illustrated.

This is an unusually handsome and interesting trade publication. Besides the reprint of an article by Mr. Louis Bell on "Application of Electric Power in Engineering Works" and of the report of the Railway Master Mechanics' Association on Electric Drive, there is a general discussion of the economy, efficiency and methods of operation of electric motor-driven tools, a full description of the "Northern" motor and its application to a great variety of machines and a wealth of suggestive and instructive illustrations. The pamphlet is one which the engineer should by all odds have in his library.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened	Work. Place.	See Eng. News.
Sept. 19.	Asphalt paving, Des Moines, Ia.	Sept. 5
Sept. 19.	Electric plant, Norway, Mich.	Aug. 29
	Advertised, Engineering News, Aug. 29.	
Sept. 19.	Guard house, Boston, Mass.	Aug. 29
Sept. 19.	Electric plant, Ft. Washington, Md.	Aug. 22
	Advertised, Eng. News, Aug. 22 to Sept. 12.	
Sept. 19.	Steam piping, etc., Washington, D.C.	Sept. 12
Sept. 19.	Electric plant, Norway, Mich.	Sept. 12
Sept. 19.	Paving, etc., New Brunswick, N. J.	Sept. 12
Sept. 19.	Bridges, etc., Albany, N. Y.	Sept. 12
Sept. 19.	City building work, New York, N. Y.	Sept. 12
Sept. 20.	Paving, Cedar Rapids, Ia.	Sept. 12
Sept. 20.	Paving, etc., Terre Haute, Ind.	Sept. 12
Sept. 20.	Removing snow and ice, New York, N.Y.	Sept. 12
Sept. 20.	Removing wrecks, Boston, Mass.	Sept. 12
Sept. 20.	Building, West Point, N. Y.	Aug. 22
	Advertised, Eng. News, Aug. 22 and 29.	
Sept. 20.	Arc lighting, El Paso, Tex.	Aug. 15
Sept. 20.	Paving and sewers, Chagrin Falls, O.	Aug. 29
Sept. 20.	Water-works, Longmont, Colo.	Aug. 29
	Advertised, Eng. News, Aug. 22 and 29.	
Sept. 20.	Stone wall, San Francisco, Cal.	Aug. 29
Sept. 20.	Hospital addition, Lac du Flambeau, Wis.	Sept. 19
Sept. 21.	School house, Providence, R. I.	Sept. 19
Sept. 21.	School house, Montville, N. J.	Sept. 19
Sept. 21.	School building Washington, D. C.	Sept. 19
Sept. 21.	Paving, Spring Garden, Pa.	Sept. 19
Sept. 21.	Paving, Conneaut, O.	Aug. 29
Sept. 21.	Generating plant (w.-wks.), Washington	Aug. 8
	Advertised, Engineering News, Aug. 8.	
Sept. 21.	Paving, Savannah, Ga.	Sept. 5
Sept. 21.	Stable, Washington, D. C.	Sept. 12
Sept. 21.	Electric railway, Gloversville, N. Y.	Sept. 12
	Advertised, Engineering News, Sept. 12.	
Sept. 21.	Hydrants, etc., San Francisco, Cal.	Sept. 12
Sept. 22.	Water pipe, Plymouth, Mich.	Aug. 29
Sept. 23.	Water plant, etc., Washington, D.C.	Aug. 29
	Advertised, Eng. News, Aug. 29 to Sept. 19.	
Sept. 23.	Light-house, Seattle, Wash.	Aug. 29
Sept. 23.	Outlet sewer, Yonkers, N. Y.	Sept. 5
	Advertised, Eng. News, Sept. 5 and 12.	
Sept. 23.	Paving bonds, Lima, O.	Sept. 5
Sept. 23.	School, Niagara Falls, N. Y.	Sept. 12
Sept. 23.	Street improvements, Muncie, Ind.	Sept. 12
Sept. 23.	Removing snow and ice, New York.	Sept. 12
Sept. 23.	Steel bridge, Ogden, Utah.	Sept. 12
Sept. 23.	Sewers, Greenville, Pa.	Sept. 12
	Advertised, Eng. News, Sept. 12 and 19.	
Sept. 23.	Sewers, Austin, Tex.	Sept. 12
Sept. 23.	Sewers, Oshkosh, Wis.	Sept. 12
Sept. 23.	Underground cable, New York, N. Y.	Sept. 19
Sept. 23.	School house, Cumberland, R. I.	Sept. 19
Sept. 23.	Electric lighting, Gloversville, N. Y.	Sept. 19
Sept. 23.	Macadamizing, etc., White Plains, N. Y.	Sept. 19
Sept. 23.	Sewers, Torrington, Conn.	Sept. 19
	Advertised, Engineering News, Sept. 19.	
Sept. 23.	Sewage pump'g house, Fond du Lac, Wis.	Sept. 19
Sept. 23.	Pumping plant, Los Angeles, Cal.	Sept. 19
Sept. 23.	Paving, etc., White Plains, N. Y.	Sept. 19
	Advertised, Engineering News, Sept. 19.	
Sept. 24.	Patrol boat, Columbus, O.	Sept. 19
Sept. 24.	Laundry machinery, New York, N. Y.	Sept. 19
Sept. 24.	Paving, Huntington, Ind.	Sept. 19
Sept. 24.	Paving, Rome, N. Y.	Sept. 19
Sept. 24.	Sewers, Huntington, Ind.	Sept. 19
Sept. 24.	Water plant, Tullahoma, Tenn.	Sept. 12
	Advertised, Eng. News, Sept. 12 and 19.	
Sept. 24.	Light plant, Tullahoma, Tenn.	Sept. 12
	Advertised, Eng. News, Sept. 12 and 19.	
Sept. 24.	School, Santa Fe, N. Mex.	Sept. 5
Sept. 24.	Power house, St. Paul, Minn.	Aug. 22
Sept. 25.	School, Watertown, N. Y.	Sept. 12
Sept. 25.	Paving, Hoboken, N. J.	Sept. 12
Sept. 25.	Workshop, Port Penn, Del.	Sept. 19
Sept. 25.	Electric railway, Westfield, Mass.	Sept. 19
Sept. 25.	Paving, Reno, Nev.	Sept. 19
Sept. 25.	Paving, Rock Island, Ill.	Sept. 19
Sept. 25.	Water filtration, Philadelphia, Pa.	Sept. 19
Sept. 26.	Drainage ditches, St. Paul, Minn.	Sept. 19
Sept. 26.	Borings, New York, N. Y.	Sept. 19
	Advertised, Engineering News, Sept. 19.	
Sept. 26.	Road construction, Rye, N. H.	Sept. 19
Sept. 26.	Drainage ditches, St. Paul, Minn.	Sept. 19
Sept. 26.	Government building, Chemawa, Ore.	Sept. 5
Sept. 27.	Sewers, Quincy, Mass.	Aug. 29
	Advertised, Eng. News, Aug. 29 to Sept. 19.	
Sept. 27.	Road construction, Nelson, B. C.	Sept. 12
Sept. 27.	Sluice gate, etc., Minneapolis, Minn.	Sept. 12
Sept. 27.	Dam, Pittsfield, Mass.	Sept. 19
	Advertised, Engineering News, Sept. 19.	
Sept. 27.	Pier, Ottawa, Ont.	Sept. 19
Sept. 27.	Pipe covering, Randall's Island, N. Y.	Sept. 19
Sept. 27.	Sewers, Wooster, O.	Sept. 19
Sept. 28.	Navy yard building, Boston, Mass.	Sept. 5
Sept. 28.	Building, Washington, D. C.	Sept. 5
Sept. 30.	Dock and dredging, New York, N. Y.	Aug. 29
	Advertised, Eng. News, Aug. 29 to Sept. 19.	
Sept. 30.	Bridge superstructure, Fredericton, N. B.	Aug. 22
	Advertised, Eng. News, Aug. 22 to Sept. 26.	
Sept. 30.	Plumbing, etc., Fort Caswell, N. C.	Sept. 12
Sept. 30.	Warehouse, Louisville, Ky.	Sept. 12
Sept. 30.	Sewers, etc., Rochester, Ind.	Sept. 12
	Advertised, Engineering News, Sept. 12.	
Sept. 30.	Electric installation, New York, N. Y.	Sept. 19
Sept. 30.	Addition to hospital, Middletown, N. Y.	Sept. 19
Oct. 1.	Bridge, Dover, Del.	Sept. 19
Oct. 1.	Sewers, Kankakee, Ill.	Sept. 19
Oct. 1.	Paving, Gallipolis, O.	Sept. 19
Oct. 1.	Lighting, Brazil, Ind.	Sept. 19
Oct. 1.	Sewers, Elizabeth, N. J.	Sept. 19
Oct. 1.	Sewers, Columbia, Mo.	Sept. 19
Oct. 1.	Stand-pipe, etc., New York, N. Y.	Sept. 19
Oct. 1.	Mooring chains, Alexandria, Egypt.	Sept. 12
Oct. 1.	Paving, Marquette, Mich.	Sept. 12
Oct. 1.	Pumping machinery, Leicester, Eng.	Sept. 12
Oct. 1.	Steel bridge, Moreton, Minn.	Sept. 12
Oct. 1.	Sewers, Hartford, Conn.	Sept. 5
Oct. 1.	Sewerage system, Bedford, Ind.	Sept. 12
	Advertised, Engineering News, Sept. 12.	
Oct. 1.	Water supply, etc., Burlington, Ia.	June 27
	Advertised, Eng. News, June 27 and July 11.	
Oct. 1.	Bridge, Copenhagen, Denmark	Aug. 8
Oct. 1.	Rip-rap, Galveston, Tex.	Aug. 8
	Advertised, Eng. News, Aug. 8 to Sept. 26.	
Oct. 2.	Wire netting, Adelaide, South Australia	Sept. 12
Oct. 2.	Hospital, Huntington, W. Va.	Sept. 19
Oct. 2.	Paving, etc., Cleveland, O.	Sept. 19
Oct. 3.	Post office, Creston, Ia.	Sept. 12
Oct. 4.	Furnaces, etc., Omaha, Neb.	Sept. 19
Oct. 5.	Steel bridge, Lawrenceburg, Tenn.	Sept. 19
Oct. 5.	Sewers, Washington, D. C.	Sept. 12
	Advertised, Engineering News, Sept. 12.	
Oct. 5.	Water gates, etc., Washington, D. C.	Aug. 8
	Advertised, Engineering News, Aug. 8.	
Oct. 7.	Steel bridge, Roswell, N. Mex.	Sept. 12
Oct. 7.	School building, Chilocco, Okla. Ter.	Sept. 19
Oct. 7.	School houses, San Bernardino, Cal.	Sept. 19
Oct. 7.	Sewers, Plainfield, N. J.	Sept. 19
	Advertised, Engineering News, Sept. 19.	
Oct. 8.	Sewers, Boston, Mass.	Sept. 19
	Advertised, Eng. News, Sept. 19 and 26.	
Oct. 8.	Sewers, Cleveland, O.	Sept. 19
Oct. 8.	Water-works extension, Menomonie, Wis.	Sept. 19
Oct. 8.	Electric machinery, London, England	Sept. 12
Oct. 8.	Sewers, Conneaut, O.	Sept. 12
Oct. 8.	Tunnel sewers, London, Eng.	Aug. 22
Oct. 9.	Bridge, Vicksburg, Miss.	Sept. 12
Oct. 9.	Road improvements, Denver, Colo.	Sept. 19
Oct. 10.	Post office and court house, Elmira, N.Y.	Sept. 12
Oct. 10.	Court house, Columbia, S. C.	Sept. 12
Oct. 12.	Coaling plant, New York, N. Y.	Aug. 29
Oct. 12.	Revenue cutters, Washington, D. C.	Sept. 19
Oct. 14.	Paving, Toledo, O.	Sept. 19
Oct. 14.	Paving, Michigan City, Ind.	Sept. 19
Oct. 15.	Jail, Nashville, Ga.	Sept. 19
Oct. 15.	Court House, Bainbridge, Ga.	Sept. 19
Oct. 16.	Electric elevators, Washington, D. C.	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct. 10.	
Oct. 16.	Sewers, Logansport, Ind.	Sept. 19
Oct. 21.	Sewers, Santiago, Cuba.	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct. 10.	
Oct. 23.	Sewerage and paving, Havana, Cuba	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct. 17.	
Oct. 26.	Bridge, Indo-China.	Sept. 12
Oct. 27.	Water-works, Fresno, Cal.	Sept. 19
Nov. 1.	Sewers, etc., Greenwood, Miss.	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct. 24.	
Nov. 1.	Water-works, etc., Greenwood, Miss.	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct 24.	
Nov. 1.	Bridge, Milwaukee, Wis.	Sept. 12
Nov. 11.	Water-works, etc., Yazoo City, Miss.	Sept. 19
Dec. 3.	**Coaling plant, Manila, P. I.**	**June 20**
Dec. 4.	**Self-propelling wagons, etc., London, Eng.**	**June 20**
Jan. 10.	**Harbor work, Rosario, Argentine Republic.**	**Apr. 18**
Feb. 28.	**Bridge, Sydney, N. S. W.**	**June 20**
	Advertised, Eng. News, June 20 to July 11.	
Sept. 1, 1902.	Bridge plans, St Petersburg, Russia	Sept. 19
	Advertised, Eng. News, Sept. 19 to Oct. 3.	
No date.	Survey, North Salem, N. Y.	Aug. 22
	Advertised, Engineering News, Aug. 22.	
No date.	Boilers, Nashville, Tenn.	Aug. 29
No date.	Post office, Granby, Que.	Sept. 19
"	Ditch, Litchfield, Mass.	Sept. 19
	Advertised, Eng. News, Sept. 19 and 26.	
"	Cement, Ottawa, Ont.	Sept. 19
"	Drilling oil wells, El Paso, Tex.	Sept. 19
"	Kerosene pump'g engine, Coronado, Cal.	Sept. 19
"	Paving, Toronto, Ont.	Sept. 19

RAILWAYS.

AUSTIN & NORTHWESTERN.—Engineers have commenced the survey for the proposed extension of the road from Burnet to Lampasas. The construction will be started in a few weeks. A. N. Leitnaker, Gen. Supt., Austin, Tex.

BALTIMORE & OHIO.—Bids were received at the company's offices in Akron, O., on Sept. 5, for improvements on the Akron division, which will represent an expenditure of about $2,000,000. The most important feature of the improvements is the double tracking of the entire distance between Akron and Chicago Junction.——The company has awarded contracts for the partial completion of the double tracking of the Pittsburg Division between Cumberland, Md., and Pittsburg. C. E. Stewart, Westminster, Md., received the contract for seven miles of this work between Confluence and the east end of the Brook tunnel. Between Rockwood and Pinkerton tunnel the work will be done by F. H. Clement & Co., comprising about 8.5 miles of construction. From Pinkerton to Brook tunnel there remains three miles which the company will probably build itself. The total cost of all the construction will approximate $1,500,000.

BUFFALO, ROCHESTER & PITTSBURG.—Work was to have been started on Sept. 1 on the construction of an extension from Butler to New Castle, Pa. About 500 men will be started at New Castle.

CALIFORNIA.—It is reported that a new railway is projected from Flowing Wells on the Southern Pacific, 135 miles southeast of here, running to the Mexican line at Cameron, some 50 miles, passing through the new town of Imperial. J. H. Braley, Pres. Imperial Water Co., is at the head of the new plan.

CANADA.—A company hase been formed in Montreal, Que., capitalized at $1,500,000, to build a branch railway from the site of the Quebec bridge along the coves and Diamond Harbor, and along the river front from Cape Rouge to the Allan Steamship wharf. The company is composed of S. N. Parent, Provincial Premier, and also Mayor of Quebec; M. P. Davis, contractor; John Hearn, M. P. for Quebec and others. John Sharples is President.

CANADA ATLANTIC.—The company has decided to build a new line between Vandreuil and Glen Robertson, Ont. The new route will materially shorten the distance between Montreal and Toronto, and the through line will be straightened so as to lessen the distance by about 16 miles.

CANADIAN PACIFIC.—Surveys are being made from Greenway to Haldner, Man., for a branch road to be about 100 miles in length. The projected line starts at Carman and runs in a southwesterly direction towards Killarney, crossing the valley between Rock and Pelican Lakes. Surveys are also being made from Abbotsford, B.C., on the Missouri branch, for 50 miles, to the Hope District, the line to be finished as far as Chilliwack, a distance of 26 miles, this year. W. F. Tye, Ch. Engr. of Construction, Winnipeg, Man.

CANANEAS R. R.—E. A. McFarland, Ch. Engr., was recently in El Paso, Tex., for the purpose of purchasing tools and machinery to be used in the construction of this road, now under way from Waco, Ariz., to the Cananeas mines in Mexico. Mr. McFarland has stated that the company's road will stop at Cananea for the present, but will probably be continued to the Manzanal mines, about 40 miles southeast of Canane, next year. On the road to Cananea 18 miles of track has been laid and 36 miles graded.

CHOCTAW, OKLAHOMA & GULF.—F. A. Molitor, Ch. Engr., Little Rock, Ark., has given the following account of works under way on the western end of the line: The Choctaw Northern, from Geary into Kansas, is now in operation to Ingersoll, a distance of 90 miles, and will be completed to Alva, a distance of 104 miles, by the middle of this week. On the Weatherford extension the road is now in operation to Elk City, a distance of 50 miles. In a week or 10 days it will be completed to Sayre on Red River, 65 miles from Weatherford, and 21 miles from the Texas line. Grading is progressing all through the Texas Panhandle and Amarillo will probably be reached by March 1. Eight miles of track has been laid on the Ardmore branch from Hartshorne, but the work is moving slowly on account of the heavy grade. It will be 117 miles long when completed. The Tecumseh branch, south of Shawnee to Asher, on the Canadian, 25 miles, will be completed by December 1, penetrating a fine agricultural district. Grading commenced last week on the Benton-Butterfield branch, by Corrigan & Co., of Kansas City, Mo., who have also the contract for the Ardmore extension.

COLORADO & NORTHWESTERN.—We are informed that a decision in regard to the matter of the proposed extension to Eldoro, Colo., will be made in about 60 days. C. B. Culbertson, Gen. Mgr., Boulder, Colo.

DENVER & RIO GRANDE.—It is reported probable that an extension will be built to Ft. Duchesne, Utah.

DULUTH & IRON RANGE.—Amendments have been filed to the company's charter permitting it to build a railway line to the Canadian boundary. If built, a connection will be made with the Canadian Northern on Gunflint Lake, about 60 miles, giving a direct connection between Duluth and Port Arthur. R. Angst, Ch. Engr., Duluth, Minn.

DULUTH, VIRGINIA & RAINY LAKE.—A construction company has been organized to build this projected road, the bids received from contractors having been rejected, being too high. The company is composed of men connected with this road, and will be known as the Minnesota Land & Construction Co. It is capitalized at $100,000. The construction company will put 400 men to work at once, and will increase that number to 1,000 as soon as possible.

FISH RIVER R. R.—F. W. Crane, Bangor, Me., informs us that the survey for the line has just been started. The line will run through Ashland, Portage Lake, Wallagrass and Ft. Kent, a distance of 50 miles. The new line will be controlled by the Bangor & Aroostook Ry. Moses Burpee, Ch. Engr., Houlton, Me.

FT. SMITH & WESTERN.—The necessary rails for 30 miles of this road have been purchased, and grading is now in progress. The line is to be built between Fort Smith and Guthrie, Okla., a distance of 175 miles. Geo. Hayden, Pres., Ishpeming, Mich.

INDIANA, DECATUR & WESTERN.—The grading on the extension from Decatur to Springfield, Ill., is now nearing completion and track laying will begin within a week. It is expected to lay steel at the rate of one mile and a half a day.

INTERNATIONAL & GREAT NORTHERN.—J. D. Trammell, Ch. Engr., Marlin, Tex., writes us that surveys are being made for the remaining 97 miles of this road, but are not yet completed. No date has been fixed for letting contracts.

LARAMIE, HAHN'S PEAK & PACIFIC.—The directors of this company have decided to construct the line as standard gage at once. It will extend from Laramie to Hahn's Peak, Colo., and will open up a large territory rich in agriculture, mining and stock raising. Grading is now in progress.

LOGANSPORT & TOLEDO.—This company has filed articles of incorporation in Indianapolis, Ind., with a capital stock of $2,000,000. It will operate the old Eel River R. R.

LONG ISLAND EXTENSION R. R.—Wm. H. Baldwin, Jr., Pres. Long Island R. R., will apply at the next meeting of the Rapid Transit Commissioners of New York city for a right to build this proposed tunnel line under the East River between Long Island City and New York.——The State Railroad Commissioners will visit Long Island this week and made examination as to the necessity for clearing 29 grade crossings and providing for travel by overhead, underneath or adjacent highways.

MISSOURI PACIFIC.—A strong effort is being made by the Joplin, Mo., Commercial Club to secure the extension of this road from Cushman, Ark., which has been surveyed so as to connect with the Kansas City line at Webb City.

NEW ORLEANS & NORTHWESTERN.—It is reported that a contract has been let to T. M. Dodson & Son, Jonesboro, Ark., for building the extension from Bastrop to El Dorado, Ark. Work will commence at once.

NEW YORK CENTRAL & HUDSON RIVER.—Contracts have been awarded for piers, marine repair shops, a new ferry house and slip, as part of the extensive improvements now being made by the company along the water front at Weehawken and West New York. These improvements will be completed within two years, and will cost over $3,000,000. W. J. Wilgus, Ch. Engr., has stated as follows regarding the improvements: "The bulkhead which is now being built will be over a mile long, and in its crib area will consist of 10,000,000 cu. ft. of logs, stone and earth filling. To fill in from the old bulkhead to this new crib, 27,000,000 cu. ft. of mud and earth will be used. Part of this new bulkhead between Piers 12 and 13 will be used exclusively for shipping Indiana limestone to the building trade of New York and to foreign ports. The new ferry house will be opened for business within a few months. The new marine shops will have machinery to build lighters, barges, steam derricks and to repair the railroad's ever-increasing fleet of river craft. Weehawken will be made an anthracite coal shipping point in connection with the New York, Ontario & Western R. R., which is now building another large coal dock beside its present one at the north end of the Central's property."

NORTHERN PACIFIC.—Reports from Walla Walla, Wash., states that the company is definitely preparing to extend its Washington Central branch from Coulee City, its present terminus, into the great Okonogan mining country. The new line, if built, will follow the Okonogan River to Bridgeport, a distance of 100 miles.

PEORIA BELT.—Incorporated in Illinois to build a belt line in Peoria, connecting with the several railways entering there. The capital stock is placed at $100,000. N. C. Draper, Peoria, Ill.; P. L. Saltonstall, Boston, Mass.; and Everett W. Wilson, Pekin, Ill., are interested.

PIKE RUN R. R.—A charter has been granted by the State Department of Pennsylvania to this company, capitalized at $60,000, to build a road from Coal Center to Greenlee Mills, Washington county, a distance of 6 miles. H. J. Forsyth, Pres., Coal Center, Pa.

PITTSBURG & LAKE ERIE.—A contract has been awarded to Thomas McNally for grading the new yards at Hazleton, Pa. The contract involves the removal of about 150,000 cu. yds. of dirt, and the total cost of the improvements will be about $250,000.

PITTSBURG, CARNEGIE & WESTERN.—Bids were opened on Sept. 12 for constructing 28 miles of additional track from Bridgeville to a point on Cross Creek, near the Ohio River. The work will cost about $2,000,000. J. A. Patterson, Ch. Engr., Pittsburg, Pa.

ST. JOSEPH & GRAND ISLAND.—It is stated that the company is contemplating building an extension from Marysville, Kan., to Blue Rapids. The proposed road will be about 12 miles long and will be an outlet for the gypsum fields in the vicinity of Blue Rapids. F. S. Hunt, Ch. Engr., St. Joseph, Mo.

ST. LOUIS & NORTH ARKANSAS.—Bids are wanted by this company until Sept. 15 for constructing a 60-mile extension from Harrison, Ark., via St. Joseph and

Marshall, to Leslie, Ark. Surveys have been completed, and nearly all the rights of way secured. It is expected that work will be under way by Oct. 1. John Scullin, Pres., 214 Security Bldg., St. Louis, Mo.; S. W. Lee, Ch. Engr., Eureka Springs, Ark.

ST. LOUIS & SAN FRANCISCO.—This company has filed with the secretary of the Creek Nation notice of the definite location of a line to be built from Chandler, Okla., to Okmulgee, Ind. Ter., and also of one to be built from Redfork, Ind. Ter., to Muskogee.

ST. LOUIS, KANSAS CITY & COLORADO.—A contract has been awarded to H. F. Balch & Co., St. Louis, Mo., for the construction of a 47-mile extension of the line westward from the west line of Cole county, Mo. The same firm has received a contract for a line from Belle, Maries county, to the east line of Miller county. Geo. L. Sands, Vice-Pres. and Gen. Mgr.

ST. LOUIS SOUTHWESTERN.—F. H. Britton, Vice-Pres. and Gen. Mgr., St. Louis, Mo., informs us that the preliminary survey has been completed and the final location is now under way for the extension from Malden to Memphis, 110 miles. The rights of way are not yet secured. M. L. Lynch, Ch. Engr., Tyler, Tex.

SAN PEDRO, LOS ANGELES & SALT LAKE.—It is stated that contracts will be let at once for building 30 miles of this road. H. Hawgood, Ch. Engr., Los Angeles, California.

SPRINGFIELD, BOONVILLE & NORTHERN.—L. U. Stephens states that work will probably be started soon on this proposed road, which has been surveyed from Springfield to Chicago. Dr. Wm. Woodburn, Pres., Des Moines, Ia.

TEXAS.—J. J. Sparrow, of Windsor, Ont., is reported to have stated that a company has been formed with a capital stock of $4,000,000, to build a railway from Corpus Christi, on the Texas gulf coast, to Brownsville, nearly 100 miles, and will be extended up the Rio Grande Valley and across the Rio Grande River to Matamoras, Mex., and other points in Mexico.

VIRGINIA & SOUTHWESTERN.—This company has decided to extend its line from Maymead, Tenn., the present terminus of the Tennessee Division, to Mountain City, a distance of five miles. The work will begin on Sept. 23. Jas. L. Brass, Gen. Mgr., Bristol, Tenn.

WASHINGTON & COLUMBIA RIVER.—Reports state that this road, extending between Pendleton and Hunt's Junction, is to be improved to the extent of $100,000. The roadbed will be put into first-class shape, curves straightened, grades reduced and wooden bridges replaced by steel structures. Jos. McCabe, Vice-Pres. and Gen. Mgr., Walla Walla, Wash.

STREET AND ELECTRIC RAILWAYS.

AUGUSTA, ME.—The Augusta & Warren Ry. has been formed by J. F. Hill, Geo. E. Macomber and J. Manchester Haynes, of Augusta, to build an electric railway to Warren, 27 miles, and there connect with the Rockland, Thomaston & Camden road. It is expected to have the road in operation within two years.

DOVER, N. H.—Articles of incorporation have been filed by the Dover, Eliot & York Beach St. Ry., capitalized at $25,000. The New Hampshire line will be about 2½ miles in length. Construction will be started early in the spring.

BRATTLEBORO, VT.—The directors of the Deerfield & Greenfield St. Ry. have voted to begin immediately on the construction of the line south from Greenfield. This line will form a connecting line for a continuous route from Greenfield to Springfield. F. E. Pierce, Pres., Greenfield.

WESTFIELD, MASS.—Bids are wanted by the Woronoco St. Ry. until Sept. 25 for the construction of the extension of its line. Bids should be addressed to the Construction Department.

ALBANY, N. Y.—The Oneida Traction Co. has been incorporated to build an electric road from Canastota to Sherrill, Oneida county, a distance of 10 miles. The capital stock is $300,000. Henry C. Stone and others, of Oneida, are interested.

BROOKLYN, N. Y.—A new electric line, under the title of the South Jamaica Electric Transportation Co. is being organized. It is said that the new line will connect with the New York & Queens County Electric R. R. at South St. and the Rockaway Road. Work is to begin this fall. James F. Tibbits, Syracuse; C. J. Shaw, Far Rockaway, and John A. Anderson, Attorney, Montague St., Brooklyn, are interested.

MT. KISCO, N. Y.—Local papers state that the Ossining Electric R. R. has been sold to Barrett & Henderson, of Cleveland, O. It is said that the purchasers will increase the capital to $5,000,000 and will equip the road in first-class style, probably extending it to Pleasantville and from there to Port Chester, via White Plains; also to Kingsbridge.

NEW YORK, N. Y.—The officials of the New York & Port Chester Ry. have announced that John B. McDonald, the contractor for the rapid transit tunnel, will probably take the contract for building the new suburban line for the company. Wm. C. Gotshall, Pres.——The Rapid Transit Subway Construction Co., E. P. Bryan, Gen. Mgr., has awarded contracts aggregating $1,500,000 to the Allis-Chalmers Co. and to the Babcock & Wilcox Co. The first named company received the award for eight 5,500-HP. stationary engines and the latter a contract for 48 boilers of 600 HP. each. General Manager Bryan has announced that contracts will be let in a few days for electrical apparatus, consisting of alternators, exciters, transformers and creators, aggregating an expenditure of about $1,500,000, to be used in the third-rail system for the new rapid transit road. There will be one main power house and eight sub-stations, and the new equipment for which contracts have been let will be for these stations. Plans and specifications for the switchboards are now being prepared.

OLEAN, N. Y.—Wilson R. Page, Pres. Olean St. Ry., writes us that the surveys for this road have been made and two miles of grading is completed, the company doing the work. The line will be 12 miles in length, running through Portville, Main Settlement, Little Genesee to Bolivar. It will be operated by electricity.

SCHENECTADY, N. Y.—Local papers state that the Rapid Transit Co.'s power plant was damaged by fire on Sept. 6 to the amount of $80,000. A number of winter cars were also destroyed. The destroyed property will be replaced as soon as possible.

HARRISBURG, PA.—An organization has been effected and a charter procured by the Whitemarsh & Upper Dublin St. Ry. Co., capitalized at $30,000. I. A. Sweigard, Pres. The company proposes to build a line about six miles in length.

ROCHESTER, N. Y.—A. J. Grant, Ch. Engr., 26 Elwood Bldg., city, informs us that the preliminary surveys have been completed for the proposed line of the Monroe County Electric Belt Line Ry., and franchises and rights of way are secured. No steps can be taken towards the construction of the proposed road until the railroad commission reaches its decision. The line is proposed to run from this city to Brighton, Penfield, Fairport, Dispatch and Pittsfield, a total distance of 20 miles. Andrew H. Brown, Pres., Dispatch.

MONONGAHELA, PA.—The Monongahela St. Ry. has let a contract to Robert Grace, Pittsburg, for the extension of its line from Pittsburg to Finleyville. Work is to be started by Oct. 1.

PARNASSUS, PA.—The directors of the Apollo, Vandergrift & Leechburg St. Ry. have decided to begin work immediately on the road, which will run from Apollo to Leechburg, and will cross the Kiskiminetas River at Leechburg to Vandergrift. The power house will be located at Leechburg. The line will be eight miles in length, and will be completed in about six months.

PITTSBURG, PA.—D. L. Starr, 450 Fourth Ave., Pittsburg, writes us that the right of way for the Crawford County St. Ry. and the Eastern Crawford County St. Ry. has been secured and the preliminary surveys made. The location surveys are now under way. Plans will be completed about Oct. 1, when contracts will be awarded for the construction. The road has been delayed owing to the difficulty in securing franchises, which are now entirely secured. The lines will be operated as one, and will run through Meadville, Townville, Blooming Valley, Tryonville and Titusville, a total length of 28 miles. Stephen Newburn, Pres., Bellevue.——A contract has been awarded by the Pittsburg, McKeesport & Connellsville St. Ry. to P. F. McCann, of Greensburg, for the construction of its line from Scottdale to Moorwood, by way of Mt. Pleasant, a distance of seven miles.

MEMPHIS, TENN.—The directors of the Memphis Union & Belt Line Ry. will ask the stockholders for authority to issue $1,000,000 in bonds, the proceeds to go toward building 15 miles of belt road. H. Brinkley, Pres.

LEXINGTON, KY.—Articles of incorporation have been filed by the Lexington & Versailles Transit Co., capitalized at $4,000, to build an electric railway from this city to Versailles, a distance of 14 miles. Tobias Gibson, D. H. James and H. A. Ingmann are interested.

AKRON, O.—A contract has been received by Gard & Seiverling, contractors, of Kalamazoo, Mich., for the construction of the Northern Ohio Traction Co.'s new line between Akron, Canton and Massillon. The contractors will at once put 200 teams at work and expect to have the line completed before spring.

INDIANAPOLIS, IND.—The Cincinnati & Indianapolis Traction Co. has been incorporated, with a capital stock of $100,000. It is organized for the purpose of building an electric roadway between those cities along the route passing through Decatur, Franklin and Dearborn counties. J. C. Hooven, C. O. Richter and C. E. Heiser, all of Hamilton, O., are incorporators.

MUNCIE, IND.—W. H. Wood, Pres. Muncie, Middleton & Greenfield Ry., informs us that the rights of way for the company's 48 miles of road are being secured and surveys will soon be started. The road will be operated by electricity.

PORTLAND, IND.—It is expected that the contract for the building of the Eastern Indiana Traction Co.'s line will be let in about 30 days. A preliminary survey has been started and will soon be completed. H. P. Lane and W. H. Puls are interested.

HUDSON, MICH.—The council has granted a franchise for the proposed electric railway from Adrian to Coldwater, via this place. A franchise has also been obtained in Hillsdale. Geo. D. Harding, Hillsdale; A. Milnes, Coldwater, and B. D. Chandler, Hudson, are interested.

ST. JOSEPH, MICH.—The Michigan & West Shore Traction Co. has filed articles of incorporation, with a capital stock of $1,350,000, to build and equip an electric railway from South Haven through Covert, with a loop around Paw Paw Lake through Watervliet, Coloma and Riverside, terminating at Benton Harbor, to be built eventually to St. Joseph. S. B. Downer, one of the stockholders, states that the construction will commence at once.

PEORIA, ILL.—The Peoria Belt Ry. Co. has filed articles of incorporation, capitalized at $100,000. The line to be built by the company will be in this city, connecting the various roads entering it. The following are incorporators: Theo. J. Miller, Peoria; S. L. Saltonstall, Boston, Mass.; Everett W. Wilson, Pekin.

SALEM, ILL.—The Wabash & Mississippi Construction Co. has been reorganized. Dr. S. D. Mercer, Omaha, Neb., is interested. It is the intention of the company to build an electric railway from Lawrence, Ill., to East St. Louis, passing through the counties of Lawrence, Richland, Clay, Marion, Clinton and St. Clair. The company will at once begin the work of securing the right of way and will soon thereafter commence the construction.

SPRINGFIELD, ILL.—Horace S. Rearden, Gen. Mgr. Springfield & St. Louis R. R., states that the directors have decided to build a line from Springfield to Carlinville this fall, and that work will commence within a few days. The motive power will be electricity.

DUBUQUE, IA.—Local papers state that an electric railway is projected between this city and Platteville, about 25 miles. The road will cost about $6,500, exclusive of the equipment. Steps are being taken for securing the right of way.

GARNAVILLO, IA.—T. J. Krasinsky, Secy. Garnavillo-Guttenberg Ry., informs us that the survey is as yet uncompleted, but is in progress. The construction capital is secured. The line will be operated by electricity and will be 10 miles long.

MANKATO, MINN.—Col. A. E. Johnson, of Minneapolis, has arrived in this city, and has stated that an electric street railway will be built here at once.

FARMINGTON, MO.—W. H. Hipolite, Ch. Engr., St. Francis County Electric R. R., Farmington, informs us that the right of way has been secured with but few exceptions. The $50,000 capital stock has been subscribed, and the stockholders will meet on Sept. 21 to vote on the proposition of raising the capital stock to $100,000. Contracts will be let within 30 days. Mr. Hipolite is now completing the final location of the line, and will propose estimates when through with that operation. This line will be 13 miles long, and will run from De Lassus, Mo., to Farmington, thence to Flat River. Peter Giessing, Pres., Farmington.

PLATTE CITY, MO.—The board of aldermen has granted a franchise to the Kansas City, Platte City & St. Joseph Electric Ry., to pass through this place.

KANSAS CITY, MO.—Herbert W. Wolcott, Gen. Mgr., Kansas City-Leavenworth Ry., Leavenworth, has secured a charter for the Missouri River Shore Line Ry., capitalized at $50,000. This new company will construct the extension of the Kansas City-Leavenworth Electric Ry. from its present terminus at Ferrath St. and State Ave., Kansas City, Kan., to the state line, thence to connect with the proposed line to the business center of this city. Besides Mr. Wolcott, Wm. P. Coulin, Cleveland, O.; Harry E. Gabriel and Willard Merriam, of Kansas City, Kan., are interested.

ST. LOUIS, MO.—The St. Louis, Clayton & Western Ry., L. G. McNair, Pres., has begun surveys for an electric railway from Forest Park to Clayton, for which a franchise was granted a year ago. The road will run into the fair grounds.

LITTLE ROCK, ARK.—An amendment has been granted to the charter of the St. Louis & North Arkansas R.R., for the extension of the road from the present terminus at Harrison, to 60 miles beyond at Leslie, southeast of Marshall Searcy county.

DENVER, COLO.—J. A. Osner has been awarded a contract for grading the first three miles of the Denver & Northwestern R. R. from Berkeley to Arvade. The work will require the removal of about 70,000 yards of dirt, and must be completed by Nov. 15. Contractors are at work stringing wires, and it is proposed to put the line in operation by Dec. 1.

SUISUN, CAL.—The county supervisors have granted a 50-year franchise to H. F. and J. W. Hartzell to construct and operate an electric railway between the towns of Vallejo and Benicia.

ELECTRIC LIGHT AND POWER.

NEWPORT, ME.—A company has been formed for the purpose of purchasing the water power and privilege at Detroit and the erection of an electric light plant to furnish lights for Detroit, Newport and Plymouth. C. E. Smith, Pres.; C. O. Sturtevant, Treas.; J. M. Sanborn, Clk.

NEW BRITAIN, CONN.—The Sanders, Frarg & Clark Co. have taken out a permit to erect a 1-story, 100 × 40 ft. power station on East Main St.

GLOVERSVILLE, N. Y.—Bids are asked until Sept. 23 for furnishing and operating electric light system. M. V. B. Stetson, Cy. Clk.; W. M. Harris, Chn. Lighting Com.

POUGHKEEPSIE, N. Y.—The contract for furnishing the Hudson River State Hospital with engines, dynamos, etc., has been awarded to F. L. Frost, Albany, N. Y., at $7,440. Other bidders were: American Supply & Construction Co., New York, $8,787; Harrisburg Eng. Co., $8,521; Hawley Elect. Mfg. Co., New York, $9,110; Edward Jay, Syracuse, N. Y., $11,781. The Buckeye Engine Co., New York, submitted a bid of $2,023 each for engines alone.

NEW YORK, N. Y.—Bids are asked until Sept. 30 for installing electric equipment of laboratories in various public schools in the borough of Brooklyn. Bd. Education, Park Ave. and 59th St.

UTICA, N. Y.—The Utica Electric Light & Power Co. has been awarded the contract for lighting the city for five years.

BRADDOCK, PA.—It is reported that the Pennsylvania Light, Heat & Power Co. intend to locate a plant in this town.

PETERSBURG, PA.—It is reported that the Southside Railway & Development Co. will make extensive electrical improvements in this place.

STEELTON, PA.—The plant of the Steelton Gas Co. is to be erected shortly.

WASHINGTON, D. C.—Bids are asked until Oct. 16 for installing electric elevators in government printing office, as described in our advertising columns. Capt. John Stephen Sewell, U. S. Engrs.

HARRISONBURG, VA.—An election was held here Sept. 17 to decide the question of having a municipal electric light plant. Thorburn Reed, Consult. Engr., 136 Liberty St., New York, N. Y., will draw plans if the vote is favorable.

RICHMOND, VA.—J. V. Pope, Supt. Va. Elec. Ry. & Dev. Co., writes us that the extension of the present station is proposed, including the building and addition of more units. One 1,000-K-W. and one 800-K-W. water wheel units to be added and probably a steam unit. Reuben Shirreffs, Des. Engr., Richmond, Va.

SEWELL, W. VA.—A contract has been closed with the Goodman Mfg. Co., Chicago, for the construction of an electric plant at the Prudence mines, on Loop Creek.

NEW ORLEANS, LA.—A committee composed of City Engineer Hardee, City Electrician Olroyd and Supt. Raymond have been considering the feasibility of the establishment of a municipal electric lighting plant.

LEBANON, O.—The electric light trustees have asked for an appropriation for the extension of the Lebanon Electric Light Works.

BRAZIL, IND.—Bids are asked until Oct. 1 for the electric lighting of this city for a period of five or ten years. Joseph W. Williams, Cy. Clk.

FORTVILLE, IND.—I. N. Stabler, of Fairmount, has received a 25-year contract for an electric plant in this town. The plant is to be completed by March 1.

TERRE HAUTE, IND.—Plans for the power station for the Columbia Enameling & Stamping Co., of this place, to cost $50,000, have been prepared by Huehl & Schmid.

SAGINAW, MICH.—H. E. Terry writes us that the board of public works has been directed by the council to prepare plans and specifications for an electric light plant. The matter was referred to a committee of the board.

ALTAMONT, ILL.—The contract to build an electric light plant has been let to T. C. Reed, Chicago; cost not to exceed $12,875.

PARDEEVILLE, WIS.—B. C. Keeley has applied for a franchise from this town for the construction of a power plant to furnish Wyocena, Pardeeville and Rio with electric light.

EAST GRAND FORKS, MINN.—The injunction restraining this city from erecting and operating an electric light plant has been dissolved.

BUTTE, MONT.—P. Mullins and G. H. Casey have applied for a light franchise for this city. Their plant will be on the Lower Madison River Canyon, eight miles from Norris.

SLATER, MO.—This town is to soon have an electric light plant.

SHELTON, WASH.—The location for an electric plant here has been selected. D. G. Klinefelter is interested in the project.

ALAMEDA, CAL.—Trustee Miller has been authorized to purchase 20,000 carbons for the electric light plant in the East.

COLTON, CAL.—Engineers are making surveys and plans for installing a supplemental plant in Mill Creek Canyon, east of Redlands, the coming year for the Electric Light & Power Co. Something like $250,000 will be expended.

FRESNO, CAL.—A resolution has been adopted soliciting offers of sales of electric light and power systems to the city.

LOS ANGELES, CAL.—Harry F. Stafford writes us that the city will probably vote in about two months on issuing bonds for the electric light plant and extension of the sewer system.

OROVILLE, CAL.—The Oroville Gas, Electric Light & Power Co. has decided to install a new process of gas manufacture.

BRIDGES.

PEABODY, MASS.—This town has voted $28,000 for rebuilding the Endicott bridge over the Boston & Maine R. R., and $1,000 for the extension of the incandescent lighting plant.

BATAVIA, N. Y.—The Owego Bridge Co. has received a contract for the erection of a new bridge over the Tonawanda Creek at Indian Falls, at $7,500. It will be a high-truss style of bridge, 110 ft. in length.

BUFFALO, N. Y.—The aldermen have asked the Mayor to rescind the action taken last week to issue a deficiency bond for $5,240, the money to be used for the construction of a bridge over the Cazenovia Creek at Stevenson St., as it is found that funds can be had from other sources without difficulty.

CANANDAIGUA, N. Y.—The board of trade is considering the matter of a swing bridge over the canal. James Arkell and Willis Bullock are appointed a committee to investigate the matter.

GLENS FALLS, N. Y.—Local papers state that bids are wanted until Oct. 19 for replacing the structure known as Green's bridge, for which an appropriation of $6,000 was made by the last legislature. John D. Partridge, Supt. Pub. Wks.

LONG ISLAND CITY, L. I.—The Long Island R. R. is reported to have decided to spend a large sum of money on the construction of bridges on the Wading River Branch. According to the present plans, six of the old bridges will be replaced by stronger ones, four of which will be of steel, and two stone arches. J. H. Cummings, Supt. Bridges.

SYRACUSE, N. Y.—A provision will be made in the next city budget for an appropriation of $20,000 for the city's share for a new bridge in North Salina St. over the Oswego Canal near the West Shore R. R. Crossing. The legislature will be asked to make an appropriation of $40,000 for the same structure.

PATERSON, N. J.—The committee appointed by the freeholders to examine the bridge at Wheeler's has reported that one new pier and one new abutment should be built in the structure. Wm. L. Whitmore, Engr.

BETHEL, PA.—Charles Davis, D. R. McClure and John W. Avee have been appointed viewers in the matter of erecting a bridge in this township.

PHILADELPHIA, PA.—It is stated that new bridges costing about $220,000 are prospective items of expense for Berks county next year.

PITTSBURG, PA.—An ordinance will be presented at the next meeting of the council authorizing the director of public works to award a contract for the erection of a new bridge across the Monongahela River at South 10th St. Plans have been practically finished for a steel and stone bridge of a width of 50 ft. The original contract was awarded to Nelson & Buchanan at $255,700. The width was increased to 64 ft., and the price to about $400,000. This was declared illegal by E. M. Bigelow, Dir. Pub. Wks., who has had new plans prepared.

DOVER, DEL.—Bids are asked until Oct. 1 for building a wooden bridge over Marsh Hope River in Ninth District. R. S. Downs, Clk. of the Peace.

BIRMINGHAM, ALA.—Permission has been granted by the board of revenue for building a bridge across Five-Mile Creek at Cardeft, to cost about $1,500.

FAYETTE, MISS.—The board of supervisors have awarded the following contracts: to the Indiana Bridge Co., Muncie, Ind., the contract for an iron bridge over Cole's Creek, at Calvit's ford, at $10,648; for a Sherry steel cable bridge over Cole's Creek, at Sim's ford, to T. M. Herrington, $1,750; Sherry steel cable bridge over Penquite Bayou, to S. S. Jacob, $980; a Sherry steel cable bridge over Mud Island Creek to M. L. Schuster & Co., of Port Gibson, Miss., $1,500.

LAWRENCEBURG, TENN.—Bids are asked until Oct. 5 for constructing a 3-span steel bridge across Shoal Creek at Iron City, to be 324 ft. long, with a 12-ft. roadway and 100 ft. of steel approach, on stone piers. F. M. Cannon, Clk. Bridge Com.

CLEVELAND, O.—The county commissioners have awarded the contract for the superstructure of an iron bridge over the Cuyahoga River, near Five-Mile Creek to the Variety Iron Works at $9,900.

COLUMBUS, O.—The council has appointed a committee of five to be present at the meeting of the board of freeholders to advocate the reconstruction of the bridges over the Elizabeth River that were damaged by the recent flood.

COSHOCHTON, O.—The county commissioners have awarded a contract to the Canton Bridge Co. for the erection of two bridges, one over the Mohican at Cavallo, and the other across Wills Creek, at $3,400 and $2,490, respectively.

SANDUSKY, O.—The county commissioners will submit the proposition for a new bridge over the Huron River at Huron to vote at the coming election. The bridge will cost about $10,000.

SPRINGFIELD, O.—The Canton Bridge Co. has been awarded the contract for the bridge across the Mad River on the Valley Pike, at $3,487.

ZANESVILLE, O.—The Massillon Bridge Co. submitted the only bids for the bridge over the Canal at the foot of Main St., on Sept. 9, as follows: bridge complete without car track, $13,500; with single track, $14,000; with double track, $14,000.

DETROIT, MICH.—E. A. Schilling, Arch., has prepared plans for a bridge across the canal on Belle Isle. It will be 25 x 50 ft., and will cost $3,200.

JERSEYVILLE, ILL.—The residents of Calhoun county and the western parts of Jersey and Greene counties are agitating the question of erecting a bridge over the Jerseyville-Hardin road, across the slough that surrounds Maconpin Island, across the Illinois River from Hardin. The proposed bridge will cost $4,000.

CHICAGO, ILL.—The following bids were received by the South Park Commissioners on Sept. 11 for building a bridge: Page & Shnable, sample "D" $47,420, "A" $48,375; "B" $48,645; "C" $55,590, additional concrete (arch) $6.30, (abutments) $5.75, extra excavation 60 cts.; Paterson, Collier & Co., Montello, $49,385, additional concrete $6.85 and $6.15; Stamsen & Blome, Vermont gray $56,500, Maine red or Westerly $60,220, additional concrete $7.25 and $7.50; Bates & Rogers Construction Co., Ortinville or Amberg $59,940, additional concrete $7 and $6.50; William Mavor & Co., St. Cloud red, $59,975; Jonathan Clark & Sons Co., Maine, $60,000; Richard C. Huston & Co., $63,376.

LA SALLE, ILL.—At a recent town meeting it was voted to appropriate $7,000 for the raising and extending of a highway bridge across the Big Vermillion River in Deer Park township.

BELOIT, WIS.—The board of public works has been authorized to receive bids for the construction of a new steel bridge, to be built in conjunction with the interurban railway company's line.

MILWAUKEE, WIS.—An ordinance will be introduced at the next meeting of the council providing for the issuance of $150,000 in bonds for the erection of a bridge across the Kinnickinnie basin at either Greenfield Ave. or Washington St.

CHARLES CITY, IA.—The county supervisors have ordered the construction of another bridge across the Cedar River at this place, to be of steel with one span, and to cost about $15,000.

DULUTH, MINN.—Mayor Hugo has received permission from the War Department to construct an aerial ferry bridge across the Duluth ship canal connecting the mainland with Minnesota Point. The bridge will consist of a car suspended on cables from a suspension bridge 140 ft. high. It will be operated by electricity. The contract for the structure is in the hands of the American Bridge Co.

MAUDAN, N. DAK.—Bids are asked until Sept. 25 for rebuilding the combination bridge located on Sec. 35, township 139, and for building a new combination bridge 158 ft. long, 16-ft. roadway, in the same township. F. G. Weinreich, County Audr.

PIERRE, S. DAK.—Bids are wanted by W. L. Collins, Comr., for a wooden bridge across Spring Creek.

KANSAS CITY, MO.—George E. Kessler, Engr. Park Bd., has completed plans for the Benton Boulevard. The plans call for a plate-girder steel bridge, to cost about $24,000. The Belt Line Co. will pay $18,000 of the cost and the city $6,000.

IDAHO SPRINGS, COLO.—Bids have been received for erecting a steel bridge to replace the wooden structure over Clear Creek at this place, which will cost about $3,000. A. J. McCune, State Engr., will soon award contracts.

SALINAS, CAL.—Bids are asked until Oct. 8 for constructing a bridge across Peach Tree Creek, to replace the present structure near the Miller Peach Tree Ranch House, Monterey county. J. D. Kaler, Clk.

STOCKTON, CAL.—The county supervisors have received the following bids for the construction of a steel bridge at Burns' cut-off on San Joaquin River: American Bridge Co., New York, $9,000; Tumelty & Sons, $8,613; Clark & Henery, $8,212; M. B. White, $8,479; San Francisco Bridge Co., $8,163.

TUCSON, ARIZ.—Bids are asked until Sept. 23 for a bridge over the Santa Cruz River on Stevens Ave. C. O. Rouse, Clk.

BUILDINGS.

BOSTON, MASS.—We are informed that the contracts for a 7-story fireproof dormitory, pile foundation, have been let to George A. Fuller Co. W. H. Killiam, Arch., 9 Park St., Boston, Mass.

CUMBERLAND, R. I.—Bids are asked until Sept. 23 for erection of school house. Bldg. Com., Cumberland, R. I. W. R. Walker & Son, Archs., 17 Custom St., Providence, R. I.

PROVIDENCE, R. I.—Bids are asked from Providence contractors until Sept. 21 for building school building. Burmah E. Perkins, Chn. Com. City Property.

MIDDLETOWN, N. Y.—Bids are asked until Sept. 30 for building an addition to State Hospital. U. T. Hayes, Vice-Pres. Board of Managers.

NEW YORK, N. Y.—One compartment of the storage warehouse at the foot of Van Brunt St., Brooklyn, owned by the New York Warehouse Co., was burned out last week; damage estimated at about $100,000.——Horgan & Slattery have been appointed supervising architects of the $5,000,000 Hall of Records Building, now in process of construction, to succeed the late John R. Thomas.

NEW YORK, N. Y.—Plans have been filed by James Everard, 12 East 133d St., for a 7-story brick tenement, 50 x 87 ft., at 42 and 44 West 120th St., to cost $75,000. J. W. Cole, Arch., 403 West 51st St.; by Rev. Peter McNamee, for two 1-story brick rectory and church, 48 x 95 ft. at Delancey and Cannon Sts., to cost $50,000. Jas. E. Kirby, Arch., 722 Tremont Ave.; by Mrs. Sidney D. Ripley, Hempstead, L. I., for a 5 and 6-story brick dwelling, 35 x 77 ft., at 79th St., west of Madison Ave., to cost $55,000. Warren & Wetmore, Archs., 3 East 33d St.

NIAGARA, N. Y.—We are informed by George T. Diemer, Clk. Bd. Education, that local contractors only will bid on the proposed high school building.

MONTVILLE, N. J.—Bids are asked until Sept. 21 for building school house in this town. John Norwood.

NEWARK, N. J.—Final plans have been completed for the 4-story commercial building which William E. Sehman will erect at 693-5 Broad St. The cost is estimated at about $60,000. Albert Studling has the contract for the mason work.

WEEHAWKEN, N. J.—It is reported that George M. Moulton & Co., Chicago, are to erect a mammoth grain elevator of 4,000,000 bushels capacity at this place for the West Shore Line of the New York Central R. R. The cost of the elevator will be $1,800,000, and that of the freight sheds adjoining $200,000. In addition, Moulton & Co. also have the contract for remodeling an elevator so that vessels may be loaded from it, at a cost of $250,000.

ALLEGHENY, PA.—The Odd Fellows of this place have voted to have a $100,000 temple erected.

EASTON, PA.—Plans are under way for a new Y. M. C. A. building in this place. The building is to be three stories in height, of stone, and measure 90 x 55 ft. C. W. Bolton & Co., Archs.

HARRISBURG, PA.—The contract for church edifice for the Roman Catholic Church of the Sacred Heart of this city has been placed with J. W. Weazer, Harrisburg. Plans were prepared by Frank R. Watson, Arch.

JERSEY SHORE, PA.—The borough council has decided to erect a municipal building.

PHILADELPHIA, PA.—The contract for the erection of the new building at corner of 11th and Arch Sts. for the Pittsburg Plate Glass Co. has been awarded to J. E. & A. L. Pennocks. Hewitt Bros., Archs.——It is reported that plans are being prepared for a 10-story mercantile block on Liberty St. for Richard and August Hartje.——Plans for the new 9-story office building on Filbert St., above 15th St., for the Pennsylvania R. R. Co. have been drawn by Furness, Evans & Co. The Cramp Engineering Co. and Roydhouse, Airey & Co. have been invited to submit bids.——A. Raymond Roff has been awarded the contract for constructing an office building, a boiler and engine room and a shed at 20th St. and Allegheny Ave.——The contract for the erection of a 3-story face brick and stone residence at No. 749 South 51st St. has been let to Benjamin Ketcham & Sons.——Sub-bids on plans for the erection of 4-story warehouse at Second and Willow Sts. have been received by Machim & Brown, Builders.

PITTSBURG, PA.—T. P. Chandler, Arch., has awarded the contract for the erection of the church edifice for the Third Presbyterian Church to Builder Thomas Reilly. The cost will be nearly $200,000.

READING, PA.—George W. Beard & Co. have been awarded the contract by the Reading Ry. Co. for the erection of a coaling station and water supply station at West Reading.

PORT PENN, DEL.—Bids are asked until Sept. 25 for building workshop at Reedy Island quarantine. T. F. Richardson, Asst. Surgeon.

BALTIMORE, MD.—It is reported that Water Engineer Quick has suggested the erection of an annex to the city hall to accommodate the water department.

HAVRE DE GRACE, MD.—It is said that Mr. and Mrs. S. J. Seneca have offered to furnish everything for the site for a $50,000 church.

WASHINGTON, D. C.—Bids are asked until Sept. 21 for constructing school building. William Tindall, Secy. District Comrs.

BERKLEY, VA.—The contract for the new school building here and at South Norfolk has been let to John W. Jones, South Norfolk, at $27,270.

NORFOLK, VA.—Andrew Carnegie has donated $50,000 to this city for founding a public library.——It is reported that $150,000 has already been pledged for the erection on the city water front of an immense storage warehouse.

HUNTINGTON, W. VA.—Bids are asked until Oct. 2 for the erection of a hospital building at the West Virginia Asylum for Incurables. Harrison Allbright, Arch., Charleston, W. Va., Board of Directors.

ASHEVILLE, N. C.—The plans of Kenneth McDonald and J. F. Sheblessy, Louisville, for the court house here have been accepted. Bids will be advertised for soon.

RALEIGH, N. C.—The contract for the erection of $12,000 office building in this city has been let to Stevenson & Gatos, Knoxville, Tenn.

BAINBRIDGE, GA.—Bids are asked until Oct. 15 for the erection of a court house. R. A. Lytle, Chn.

NASHVILLE, GA.—Bids are asked until Oct. 15 for erection of fireproof jail. Clerk of Superior Court can furnish plans and specifications.

JACKSONVILLE, FLA.—Architects are asked to submit plans and specifications on Sept. 30 for the erection of a modern municipal building. Philip Priolean, Cy. Engr.

TUSCALOOSA, ALA.—The question of a new court house in this place is being agitated.

RIDERVILLE, ALA.—The railroad commission has ordered a new depot for this place and the railroad company has already drawn up plans for the new building.

HAZLEHURST, MISS.—Bids are asked until Oct. 7 for erecting court house. J. B. Mayes, Clk.

JACKSON, MISS.—A $75,000 court house is to be erected in this place. The plans and specifications for the building have been prepared by F. B. & W. S. Hull, Archs.

ROLLING FORK, MISS.—The contract for building the court house here has been let to J. J. Glandfield, at $24,500. Hune J. Jackson is supervising architect.

ST. BERNARD, LA.—The erection of a court house and jail in this place is being discussed.

BRISTOL, TENN.—It is reported that the Norfolk & Western Ry. Co. will expend about $100,000 in the erection of a union depot at this place.

PARIS, TENN.—It is reported that a new city hall is to be erected.

CLEVELAND, O.—A resolution has been adopted by the city council authorizing the issuance of $110,000 to pay part of the cost of a new West Side market house.

FORT WAYNE, IND.—It is reported that the Wabash R. R. has definitely decided to build a $100,000 depot here next spring.

BOYNE FALLS, MICH.—A stock company has been organized, with a capital of $50,000, to build a sanitarium at this place. Drs. Urhart and Porter and Messrs. J. Buckley, C. F. Hankey and Frank Vincent, of Petoskey, Mich., are interested in the project.

CHICAGO, ILL.—The Illinois Central R. R. Co. has taken out a permit for the erection of an addition to the grain elevator of the company at the foot of South Water St., to cost $125,000.——The Standard Club has taken out a permit for the proposed addition to its club house. The addition will cost $85,000.——A permit has been granted E. W. Blatchford to build a $70,000 7-story brick warehouse at 41 to 47 Fulton St.

DECATUR, ILL.—William J. Quinlan, Pres. Bd. Library Trustees, writes us that specifications for the public library are now being prepared, and that the trustees will be ready to receive bids in about two weeks. Moran, Russell & Gorden, Archs., St. Louis, Mo.

JEFFERSON, WIS.—Fire recently destroyed the plant of the Wisconsin Manufacturing Co., St. Mary's Episcopal Church and several other buildings in this place. The total loss will amount to about $60,000. The manufacturing plant will be at once rebuilt.

LAC DU FLAMBEAU, WIS.—Bids are asked until Sept. 20 for building an addition to the hospital Lac de Flambeau School. W. A. Jones, Comr. Indian Affairs, Washington, D. C.

ST. CLOUD, MINN.—The contract for constructing the public building at this place has been awarded to Angus & Gindelle, Chicago.

ST. PAUL, MINN.—The Wisconsin Central R. R. has taken out a permit for a new freight house on East Third St., to cost $63,000.

RENVILLE, MINN.—The state board of investment has allowed the loan of $50,000 asked by Renville county, with which to erect a court house at this place.

BUTTE, MONT.—Plans for a new county hospital, to cost $20,000, have been considered by the commissioners.

KANSAS CITY, MO.—John H. Hobbs has taken out a permit for a $40,000 brick warehouse at 1431 West Ninth St., and the Metropolitan St. Ry. Co. has a permit for erection of $80,000 shops at Ninth and Lister Sts.

ST. LOUIS, MO.—The Hadley-Dean Glass Co. are to erect a warehouse and office building at corner of 11th St. and Lucas Ave. Architect Isaac S. Taylor is making the plans.

LITTLE ROCK, ARK.—The contract for the erection of the deaf mute institute has been let to Contractor Casey, of this place, at $64,990.

WACO, TEX.—F. L. Carroll has given $60,000 to build a chapel and library for Baylor University, at Waco.

CHILOCCO, OKLA. T.—Bids are asked until Oct. 7 for constructing addition to school building. W. A. Jones, Comr. Indian Affairs, Washington, D. C.

TACOMA, WASH.—The bids for the new library were all rejected and new bids are to be called for.

CHEMAWA, ORE.—Bids are asked until Sept. 26 for erecting various buildings at the Indian school. W. A. Jones, Comr., Washington, D. C.

PORTLAND, ORE.—It is reported that the German societies of this city are to erect a society building.

OAKLAND, CAL.—It is reported that Dr. John S. Billings, Philadelphia, designer of the John Hopkins Hospital, Baltimore, will suggest an outline of plans for new Merritt Hospital, to be built next year on Hawthorne St.

SAN BERNARDINO, CAL.—Bids are asked until Oct. 7 for building two school houses. Lulu Claire Bahr, Secy. Bd. Education.

SAN FRANCISCO, CAL.—Bids are asked until Sept. 19 for furnishing and setting sandstone and brick work for Park Emergency Hospital. P. J. Fay, Secy. Park Comrs.

FORT DEFIANCE, ARIZ.—Architect Charles M. Burns, Philadelphia, has prepared plans and specifications for the public school building at this place.

TUCSON, ARIZ.—It is reported that A. Hittinger will build a 3-story hotel, cohtaining 75 rooms, on E. Congress St.

SALT LAKE CITY, UTAH.—S. C. Falkinburg, Arch., Detroit, Mich., writes us that they are now ready for bids of all kinds for the 6-story stone and brick apartment hotel to be erected in Salt Lake City, Utah, for J. S. Bransford.

GRANBY, QUE.—Bids are asked for building a post office in this place. Fred. Getircas, Secy. Bd. Pub. Wks., Ottawa.

TORONTO, QUE.—It is reported that this place is to have a new cattle market, on which it is proposed to spend $75,000 to $100,000 for buildings. Alderman Burns is chairman of the committee.

ST. JOHNS, N. F.—A disastrous fire occurred here last week, resulting in the destruction of several stores and the loss of two lives. The damage is estimated at about $500,000.

WATER-WORKS.

CAMDEN, ME.—F. L. Fuller, C. E., 12 Pearl St., Boston, Mass., has made a report to the water committee upon a new system and also on the improvement of the present system.

ORANGE, MASS.—The contract for the repairs on the Stoneville dam ordered by the county commissioners has been awarded to H. Goddard, Athol, Mass.

PALMA, MASS.—It is reported that the fire district committee has voted to employ an engineer to estimate the cost of a new water system, with new iron pipes, to be owned by the district.

RUSSELL, MASS.—It is expected that this place will soon be supplied with a water system by a private company.

UXBRIDGE, MASS.—A new reservoir is to be built here next year, according to reports.

GROTON, CONN.—The Groton Water-Works Co. has voted to proceed at once with the construction of water-works to supply this town. Daboll & Crandall, Engrs., New London, Conn., made the preliminary surveys and investigations.

FORT PLAIN, N. Y.—The village trustees are considering making improvements in the water-works system. Frank Baxter, Engr., Utica, N. Y., is making the surveys, and will make a report as to the cost of proposed improvements.

HORNELLSVILLE, N. Y.—The water plant formerly owned by Pittsburg parties has been purchased by the city.

JAMESTOWN, N. Y.—We are informed that the construction of water-works, to cost about $600,000, is now under consideration, the old plant being considered inadequate for the needs of the city.

NASSAU, N. Y.—Gardenier & Moxley, Engrs., Shodack Landing, N. Y., have been making surveys of available water supply for the village. Maps and estimates of cost will be furnished soon.

NEW YORK, N. Y.—Bids are asked until Oct. 1 for standpipe, piping to buildings and pumping machinery. Frederick H. Schroeder, Pres. Bd. Quarantine Comrs., 11 Broadway.

TROY, N. Y.—Wm. G. Raymond, Consult. Engr., Troy, writes us that the plans for the Tonehannock system of works, involving storage reservoir of 2,000 acres, earth dam 65 ft. high, one mile tunnel and six miles 30-in. supply main, will be ready this fall or next spring. The estimated cost, including land, etc., is $1,040,000. John Phelan, Comr. Pub. Wks.

EAST ORANGE, N. J.—The council has decided to ask for bids for a water supply for this city.

HOBOKEN, N. J.—A petition has been presented to the water board asking for a new water main in the vicinity of Graham St.

BATH, PA.—This borough has voted to issue bonds to the amount of $20,000 to put in water-works.

ELWYN, PA.—The contract for a reservoir for the Pennsylvania Training School here has been awarded to G. S. Cheyney, Philadelphia, at $5,000.

PHILADELPHIA, PA.—Bids are asked until Sept. 25 for the improvement, extension and filtration of the water supply. W. C. Haddock, Dir. Pub. Wks.

PITTSBURG, PA.—The contract of the Federal Water Co. to furnish the City Home and Hospital at Marshalsea with 200,000 gallons of river water daily has been annulled.

PITTSBURG, PA.—Ordinances have been introduced in the councils authorizing the extension and improvement of the water supply, including a filtration plant, at a sum not to exceed $1,700,000; the purchase of two 15,000,000-gallon pumping engines, to cost not more than $200,000; one 6,000,000-gallon pumping engine, to cost not more than $35,000, and two pulsometer steam pumps, not to exceed $700.

WAYNESBORO, PA.—D. H. Hoover, Daniel Hoover and J. H. Neal have been appointed a committee to have charge of the work on the proposed main reservoir of the Waynesboro Water Co. at Rattlesnake Run.

WEST READING, PA.—The contract for the erection of a coaling station and water supply station for the Reading Ry. at this place has been let to George W. Beard & Co.

SAINT MICHAELS, MD.—Bids are asked until Sept. 24 for $12,000 water-works bonds. G. K. Benson, Clk. Bd. Comrs.

WASHINGTON, D. C.—Bids are asked until Oct. 8 for extending the water system at Menominee School, Wis. W. A. Jones, Comr. Indian Affairs, Washington.

AMHERST, VA.—It is reported that the directors of the Sweet Briar Institute are to construct water-works.

BLACKSTONE, VA.—We are informed that this town has voted to put in water-works. S. G. Williams, H. H. Gray, W. E. Hait, C. H. Robertson, J. W. Haim, Water Comrs.

MOORESVILLE, N. C.—C. V. Volls, Mayor, writes us that at the recent election it was voted not to issue bonds for the erection of works.

McRAE, GA.—An election will be held soon to vote on the water-works and electric light question.

KISSIMMEE, FLA.—This place is considering the question of water-works.

GREENWOOD, MISS.—This city has granted a franchise to C. E. Wright for electric lights, water-works and sewerage system. Mr. Wright will greatly enlarge his present water-works system and electric light plant.

GREENWOOD, MISS.—Bids are asked until Nov. 1 for the construction of water-works and sewers, as described in our advertising columns. J. A. Omberg, Jr., Engr., 542 Randolph Bldg., Memphis, Tenn.

PASS CHRISTIAN, MISS.—The council has rescinded the proposed issuance of $12,000 of bonds for putting in a water-works system.

YAZOO CITY, MISS.—Bids are asked until Nov. 11 for franchises for water-works, sewerage system, electric light plant and street railway. Application has been made for same by J. Z. George, Vicksburg; Yazoo Improvement Co.; Capt. W. O. Pugh. E. J. Pouesine, Cy. Clk.

MARYVILLE, TENN.—The question of water-works is being agitated.

WICKLIFFE, KY.—The contract for building the water-works at this place has been let to T. W. Gammon and E. A. Burke, Cairo, Ill.

COLUMBUS, O.—The engineering department is engaged on plans for the new reservoir and for the conduit extension.

FORT WAYNE, IND.—This city is to decide soon upon a system of water-works.

KOKOMO, IND.—Jackson Morrow, Cy. Engr., writes us that the franchise for the construction of a new water-works plant has been made to the Wayne Engineering Co., Fort Wayne, Ind., at $177,994.

WEST BAY CITY, MICH.—Mayor Lind has recommended that the city be bonded for $25,000, the proceeds to be used in extending the water-works system.

HARRISBURG, ILL.—A franchise for 30 years has been granted the Harrisburg Water, Light & Power Co. They agree to put in two miles of mains within six months and machinery capable of pumping 500,000 gallons per day.

JERSEYVILLE, ILL.—The city council has been asked to make a change in the equipment of two wells of the city water-works.

MARSEILLES, ILL.—Preliminary steps for a water-works system for this place have been taken.

MOLINE, ILL.—The city council is considering the question of having a mechanical filtering system.

SPRINGFIELD, ILL.—The city council is considering the idea of erecting a new solid concrete dam at the Sangamon River for providing water for the city.

BARABOO, WIS.—The sale of the Baraboo Water-Works plant has been postponed until Nov. 7.

LA CROSSE, WIS.—The question of erecting a settling tank, to cost about $50,000, in connection with the water-works, is being talked of.

MILWAUKEE, WIS.—The bids for the erection of a pumping station have been rejected and the matter will be readvertised.

ORFORDVILLE, WIS.—It is reported that plans for water-works for this place are being decided upon.

ANTHON, IA.—A committee to make an estimate on a water system has made a partial report and a preliminary survey has been made by men from the staff of L. F. Wakefield.

JESUP, IA.—This city has voted in favor of a water-works system, to cost $5,000.

OTTUMWA, IA.—The contract made by the city for municipal water-works has been ratified at a special election.

DULUTH, MINN.—The proposition to extend the municipal system out Woodland Ave. to Minneapolis St., 26,167 ft., at a cost of $26,394, is being considered by the city council.

MINNEAPOLIS, MINN.—The council water-works committee has set aside $30,000 for the removal of the "Jumbo" pump from West Side Station to North Side.

KANSAS CITY, KAN.—It is reported that the Armour Packing Co. has under consideration the construction of a complete system of water-works at this place.

BASIN, WYO.—The Big Horn Canal Co. has been formed for the purpose of constructing a canal to irrigate 23,500 acres of land in this vicinity. Work will be commenced at once.

ST. LOUIS, MO.—A committee of engineers consisting of Alan Hazen, New York; George Y. Wismer, Detroit; Benezette Williams, Chicago, is investigating as to the best plan for giving this city pure water.

ST. LOUIS, MO.—The Ponce de Leon Water Co., of this city, has filed a statement of increase of capital stock from $2,500 to $25,000.

BEAUMONT, TEX.—T. C. King, Cy. Clk., writes us that the water-works and street railway are being put in by a private corporation, the Beaumont St. Ry. Co.

HALLETTSVILLE, TEX.—The city council has decided to use meters for the extensive water consumers.

SCHALENBURG, TEX.—The question of water-works is being considered here.

WACO, TEX.—Investigations looking to a water supply for this city are going on.

COLORADO SPRINGS, COLO.—The city council is considering the purchase of a site and the subsequent erection of a reservoir.

PUEBLO, COLO.—The pollution of the Arkansas River water and the ways and means for the prevention of this are absorbing the attention of the mayors of Salida, Canon City, Florence and Pueblo.

FORT MORGAN, COLO.—The citizens of this place are considering the question of having a reservoir.

LONGMONT, COLO.—Bids are asked until Sept. 20 for the completion of the street pipe system construction. Geo. H. Stone, Cy. Clk.

TRINIDAD, COLO.—Bids are asked until Sept. 23 for laying 36-in. pipe. V. B. Humphreys, Cy. Clk.

OAKLAND, ORE.—The survey for a water system for this place has been completed.

FRESNO, CAL.—Bids are asked until about Oct. 27 for supplying the city with water-works. J. B. Johnson, Cy. Clk.

LOS ANGELES, CAL.—Bids are asked until Sept. 23 for erecting pumping plant. C. H. Hance, Cy. Clk.

SACRAMENTO, CAL.—The citizens' water committee has submitted two propositions for obtaining an improved water supply for the city, viz.: By filtration of river water, or by East Side wells system. Both propositions will be submitted to vote of the people.

SAN BERNARDINO, CAL.—The question of issuing $60,000 in bonds for a municipal water supply is being discussed.

SALT LAKE CITY, UTAH.—It has been discovered that about 2,000,000 gallons of irrigation water is lost by leakage in this city. To save this amount it is thought that a new flume will have to be built.

DARTMOUTH, N. S.—The water committee has reported adversely to the proposed extension of the water and sewerage system at the present time.

WATERLOO, QUE.—A by-law authorizing the borrowing of $5,000 for extension of the water-works system has been passed.

NANAIMO, B. C.—A by-law for the expenditure of $10,500 toward the purchase of a water-works system has been passed.

SEWERAGE.

SOUTH PORTLAND, ME.—The council has authorized the issuance of $10,000 in sewer bonds.

BOSTON, MASS.—Bids are wanted by the Metropolitan Water and Sewerage Board, 1 Ashburton Place, until Oct. 8, for building part of section 75 of the high-level sewer in Roxbury, to be 2,000 ft. in length, 78 × 84 ins., as stated in our advertising columns. Wm. M. Brown, Engr.

PITTSFIELD, MASS.—The council has voted to appropriate $4,500 to change the sewerage systems in the William B. Rice and Linden St. school houses.

WELLESLEY, MASS.—F. L. Fuller, Civil Engr., Boston, has been engaged to make a preliminary survey for a sewerage system.

WINCHESTER, MASS.—Local press reports state that it will cost $10,000 to drain the Church St. district and $4,000 to lay a sewer siphon under the river.

EAST HARTFORD, CONN.—Plans have been prepared and bids will soon be asked for constructing a sewer in Rector and Bigelow Sts.

TORRINGTON, CONN.—Bids are asked until Sept. 23 by the borough clerk for constructing approximately 3,500 lin. ft. of storm-water sewer in four streets, as stated in our advertising columns. W. M. P. Shelton, C. E., 88 Main St.

COHOES, N. Y.—Bids are asked until Sept. 20 for completing section No. 2 of the sewerage system. William J. Elliot, Clk. Pub. Improvement Com.

ONEIDA, N. Y.—Albert E. Loomis, Bd. Pub. Wks., has prepared amended plans for a sewerage system for the Third and Fifth wards and they have been sent to the state board of health for approval.

WHITE PLAINS, N. Y.—The village engineer has been instructed to prepare plans and estimates for a storm-water drain from the Davis Brook through Fisher Ave. and to the Bronx River; also for a sewer in Old Spring St.

BURLINGTON, N. J.—The Burlington Sewerage Co. has made surveys preparatory to building a pump house.

ELIZABETH, N. J.—Bids are asked until Oct. 1 for constructing sewers, approximately as follows: 2,625 ft. of 12-in. pipe, 3,630 ft. of 6-in. pipe, 202 6-in. connections, 25 manholes and two basins. N. K. Thompson, St. Comr.

LAMBERTVILLE, N. J.—The council is considering the question of going ahead with the proposed sewer construction.

PLAINFIELD, N. J.—Bids are asked until Oct. 7 for constructing 4,040 ft. of 8-in., 2,807 ft. of 10-in., 1,740 ft. of 12-in. sewer, etc., as stated in our advertising columns. Geo. B. Wean, Cy. Clk.

WOODLYNNE, N. J.—George S. Allen, Trenton, has been awarded the contract for constructing a complete sewerage system for the borough.

SPRING GARDEN, PA.—Bids are asked until Sept. 21 for constructing 1,200 ft. of sewer in Spring Garden Ave. Knopf & Milholland, Borough Engrs., 413 4th Ave., Pittsburg.

SUNBURY, PA.—W. H. Dechant, Reading, will be engaged to make a survey of the town in connection with the storm-water drainage.

SWISSVALE, PA.—Bids are asked until Sept. 21 for the purchase of $105,000 in sewer bonds. R. W. Cummins, Chn. Finance Com.

HARRISONBURG, VA.—Reports state that the council will advertise for bids for extending the sewerage system.

BIRMINGHAM, ALA.—Julian Kendrick, Cy. Engr., has reported to the Jefferson county sewer commission that the survey of the sanitary sewerage system has been completed.

GREENWOOD, MISS.—Bids are asked until Nov. 1 for constructing a brick sewerage reservoir, etc., and for furnishing about 30,000 ft. of 6 to 8-in. sewer pipe; also for water-works, as stated in our advertising columns. C. E. Wright, Pres.; J. A. Omberg, Jr., Engr., Memphis, Tenn.

PARIS, KY.—G. O. Tenney, Spartanburg, S. C., has been awarded a contract for constructing sewers at $22,711. P. Bannon, Louisville, was awarded the contract for furnishing pipe at about $4,000.

ASHLAND, O.—L. E. Chapin, Engr., has submitted plans for a sewerage system at an estimated cost of $60,000.

CLEVELAND, O.—The council has adopted resolutions to construct sewers in several streets.

CLEVELAND, O.—Bids are asked until Oct. 8 for constructing a sewer in Taylor St. Chas. P. Salen, Dir. Pub. Works.

DAYTON, O.—The Gem City Construction Co. has been awarded a contract for constructing sewers in districts 4 and 5 at $14,041.

LANCASTER, O.—Wm. Quinn, of the American Construction Co., Columbus, has made a proposition to construct a sewerage system. A rental is to be charged for

connections and the city will have the privilege of buying the plant at the end of ten years. The matter has been referred to the council drainage committee.

MANSFIELD, O.—Bids are asked until Sept. 21 for constructing a 100-lin. ft., 3-ring, 9-ft. radius brick arch over Ritters Run; also for constructing an 18-in. storm-water sewer on both sides of Harker St. F. M. Remy, Cy. Clk.

WASHINGTON C. H., O.—A sewerage system is to be installed and operated by the American Construction Co., Columbus. Work will be commenced in a few weeks.

WOOSTER, O.—Bids are asked until Sept. 27 for 1,390 ft. of 15-in. pipe sewer and 704 ft. of 6-in. laterals. W. T. Peckinpaugh, Cy. Clk.

HUNTINGTON, IND.—Bids are asked until Sept. 24 for constructing 3,000 ft. of 10 to 30-in. pipe sewers, rock excavation; estimated cost, $10,000. Frank Guthrie, Cy. Engr.

LOGANSPORT, IND.—Bids are asked until Oct. 16 for the following extensions: 1,220 ft. of 12-in. pipe, 207 ft. of 10-in. pipe, and 700 ft. of 8-in. pipe. Walter A. Osmer, Cy. Engr.

MICHIGAN CITY, IND.—J. Renkawitz & Co. have been awarded a contract for constructing 630 ft. of 10-in., 690 ft. of 15-in. and 1,715 ft. of 20-in. tile sewer at $2,650.

TERRE HAUTE, IND.—The following bids have been received for constructing a sewer in 13th St.: J. E. Voorhees & Co., $2,535.75; Jesse Robertson, $2,536.38; Braxton Cox., $2,761.

BLOOMINGTON, ILL.—Wolf, Maupin & Curdy, Alton, have been awarded a contract for constructing a sewer in Chestnut St. at $2,425.

KANKAKEE, ILL.—Robt. D. Gregg, Cy. Engr., writes us that bids are asked until Oct. 1 for constructing 7,700 ft. of rock and 18 to 30-in. pipe sewer, to cost about $20,000.

ASHLAND, WIS.—Bids are asked until Sept. 21 for constructing an 8-in. sewer in one alley. F. J. Colignon, Chn. Bd. Pub. Wks.

FOND DU LAC, WIS.—Bids are asked until Sept. 23 for constructing the pumping house for the sewage-disposal plant. F. A. Bartlett, Cy. Clk.

MILWAUKEE, WIS.—Bids are asked until Sept. 19 by the board of public works for constructing pipe and brick sewers in six streets.

WATERTOWN, WIS.—Bids are asked until Sept. 21 by the board of public works for constructing a storm sewer and appurtenances in Market St.

ST. PAUL, MINN.—Bids are asked until Sept. 26 for constructing about 19 miles of drainage ditches, requiring approximately 248,186 cu. yds. of excavating. P. E. Hanson, Member of Board; Geo. A. Ralph, State Drainage Engr., Crookston.

ST. PAUL, MINN.—Bids are asked until Sept. 23 for constructing 1,920 ft. of 9-in., 490 ft. of 12-in. pipe sewer, 7 catchbasins and 6 manholes in two streets. C. H. Bronson, Clk. Bd. Pub. Wks.

OMAHA, NEB.—The following bids were received Aug. 30 for constructing a storm-water sewer, (1) using natural cement, (2) using Portland cement: George R. Crandall, (1) $3,008, (2) $4,221; James P. Connolly, (1) $4,153, (2) $4,486; J. O. Corby, (1) $4,644, (2) $6,491; J. E. Riley, (1) $4,937, (2) $5,381; John F. Dailey, (1) $4,986, (2) $6,439; C. A. Stevenson, (1) $5,655, (2) $6,292.

COLUMBIA, MO.—Bids are asked until Oct. 1 for constructing sewers in district No. 6. John S. Bicknell, Cy. Clk.; E. B. Carthorn, Engr.

ST. JOSEPH, MO.—Helsley Bros. have been awarded the contract for the Charles St. sewer extension at about $5,000.

BEAUMONT, TEX.—T. C. King, Cy. Clk., writes us that bids will be asked in about 30 days for constructing 5-ft. brick sewers, average cut 8 ft. An appropriation of $75,000 has been made for the work. M. A. Orlopp, Designing Engr.

RATON, N. MEX.—The J. M. O'Rourke Construction Co., Denver, Colo., has been awarded a contract for constructing a sewerage system at $20,000.

DAYTON, WASH.—An ordinance has been passed for constructing sewers in certain streets and to create sub-sewer district No. 1.

LACHINE, QUE.—The council has passed a by-law authorizing a loan of $37,000 for drainage. Address Mayor Descarries.

GALT, ONT.—Bowman & Bray, Berlin, have been authorized to prepare plans and specifications for sewers to be laid in Water, Ainslie and Dickson Sts.

WINNIPEG, MAN.—Bids are asked until Sept. 19 for constructing sewers in four streets. C. J. Brown, Cy. Clk.

GARBAGE DISPOSAL—STREET CLEANING

DORCHESTER, MASS.—We are informed that it is intended to remove the garbage plant erected at this place by the Sanitary Supply Co. to Spectacle Island, Boston Harbor, at an expense to the city of $140,000.

TRENTON, N. J.—The street committee has been instructed to advertise for bids for removing garbage for the ensuing year.

SHENANDOAH, PA.—David D. Dyke, Centralia, has made a proposition to the board of health to establish a garbage system. A crematory may be built.

HAMILTON, O.—On Sept. 10 the Dixon Crematory Co. submitted a bid for a garbage crematory of $10,570.

MILWAUKEE, WIS.—The board of public works will readvertise for a contract for sweeping the streets.

TOPEKA, KAN.—Oscar Kuehne will make a proposition to the city for the erection of a garbage crematory to cost $10,000, if he is granted a contract to remove all refuse from the city. He intends also to operate a factory producing glue, tallow and fertilizer.

TOPEKA, KAN.—The sanitary committee has decided to report favorably on Frank Zingheim's proposition to build a garbage crematory and desiccating works.

KANSAS CITY, MO.—The board of health has selected a site for the city dump, and it will be built as soon as the council makes an appropriation for that purpose.

KANSAS CITY, MO.—Street Superintendent Pendergast is a member of a committee appointed to locate a site for a city dump. The garbage will be delivered to Ed. Scoville at the dump until April 1 for $550.

St. LOUIS, MO.—The bill authorizing the board of health to let a contract for the reduction of garbage has been passed by the assembly. The contract will be for three years.

SALT LAKE CITY, UTAH.—The following bids for constructing a garbage crematory have been received: Municipal Engineering Co., New York, two-cell crematory, complete with building, capacity 40 tons daily, $9,300; Bridgeport Boiler Works Co., steel stack furnace, wood building, $9,100; brick stack, fireproof building, $11,900; Dixon Garbage Crematory Co., Toledo, O., $8,027 to $15,131, according to whether structure is of brick or steel, and with or without double furnaces.

MORRIS, MAN.—Bids are asked until Sept. 21 for excavating about 5,200 cu. yds. of earth and building a dump across Horse Shoe Lake. R. N. Whitworth, Municipal Secy.-Treas.

STREETS AND ROADS.

RYE, N. H.—Bids are asked until Sept. 26 by the New Hampshire Boulevard Commission, Portsmouth, for constructing a section of state boulevard in this town. Alfred F. Howard, Chn.

LEE, MASS.—An appropriation of $5,500 has been made to construct sidewalks and curbings in Laurel St.

SOUTH NORWALK, CONN.—The council has appropriated $14,500 for paving with brick in Washington St. A sewer is to be laid in the street also.

COHOES, N. Y.—Bids are asked until Sept. 20 for completing the contract of Martin Murray for grading the Garner St. extension. William J. Elliot, Clk. Pub. Impvt. Com.

NEW YORK, N. Y.—Bids are asked until Sept. 19 by the park board for furnishing and laying new and relaying old bluestone flagging, grading, building basin and connections and other work in Thomas Jefferson Park.

ROCHESTER, N. Y.—It is proposed to construct cement sidewalks in six streets at an estimated cost of $4,150. T. S. Pulver, Cy. Clk.

ROME, N. Y.—Bids are asked until Sept. 24 for asphalt paving in E. Liberty St. Jay Capron, Cy. Engr.

WHITE PLAINS, N. Y.—Bids are asked until Sept. 23 for macadamizing, constructing storm water drains, etc., in three streets. Wm. B. Sutherland, Village Clk.

WHITE PLAINS, N. Y.—Bids are asked until Sept. 23 for macadamizing, paving, etc., in three streets, as stated in our advertising columns. Wm. B. Sutherland, Village Clk.; B. F. Darling, Village Engr.

ELIZABETH, N. J.—The following bids have been received for paving with trap block in Chestnut St.: B. M. Shanley, Jr., $10,600; James J. Potts, $11,553. The property owners have protested against block pavement and asked for asphalt. The matter has been referred to the committee on streets and parks.

JERSEY CITY, N. J.—Bids are asked until Sept. 24 for improvements in four streets, requiring 1,055 cu. yds. of excavation, 24,630 sq. ft. of flagging, etc. George T. Bouton, Clk. Bd. St. and Water Comrs.

UNION, N. J.—Bids are asked until Sept. 23 for paving with Belgian blocks, curbing, etc., in Liberty St. Chas. Singer, Town Clk.

VAILSBURG, N. J.—William H. Turrell has been awarded a contract for constructing artificial stone sidewalks, at $5,569, and Frank W. Snyder for curbing, guttering and grading in four streets, at $4,732.

WEST HOBOKEN, N. J.—The cost of asphalting Palisade Ave. has been estimated at $36,382.

McKEESPORT, PA.—City Controller Hitchens has advertised for bids for paving with brick in Market St.——A land company has been formed and 210 acres of land purchased. The company will open a boulevard, lay out streets and make other improvements, which, it is reported, will cost $200,000. Thos S. Bigelow, E. M. Bigelow and Chas. A. Muehlbronner, all of Pittsburg, are interested.

NEW BRIGHTON, PA.—There are about 22 miles of streets to be paved, and reports state that the question of issuing bonds for the work will soon be voted on. The estimated cost of the work is $15,000 per mile.

PITTSTON, PA.—Considerable paving will soon be done, but the town is undecided whether to use macadam or brick. W. C. Sutherland, Chn. St. Com.

SPRING GARDEN, PA.—Bids are asked until Sept. 21 for grading, paving and curbing in Spring Garden Ave. Knopf & Milholland, Borough Engrs., 413 4th Ave., Pittsburg.

WEST WASHINGTON, PA.—The council has decided to pave about 400 ft. of Chestnut St. The borough engineer has been instructed to make an estimate of the cost, after which bids will be asked.

WILMINGTON, N. C.—The Coal, Cement & Supply Co. has been awarded a contract for paving in Princess St. with brick, at about $3,000.

CLEVELAND, O.—Bids are asked until Oct. 2 for grading, draining, curbing and paving with brick in Wade Park Ave. Chas. P. Salem, Dir. Pub. Wks.——The board of control has been requested to prepare plans and specifications for paving with brick in Riverside Ave. and in Allen St.

GALLIPOLIS, O.—Bids are asked until Oct. 1 for paving with brick in Second and Olive Sts. Geo. F. Bovie, Cy. Clk.

TOLEDO, O.—Bids are asked until Oct. 14 for block paving on concrete, broken stone or sand foundation in four streets. John E. Connell, Cy. Clk.

UPPER SANDUSKY, O.—The issue of $37,000 in county road improvement bonds has been sold to the Commercial National Bank.

YOUNGSTOWN, O.—Bids are asked until Sept. 21 for paving in Bordman St. and for constructing cement curb and gutter and driveways in two streets. C. E. Cross, Clk. Cy. Comrs.

HUNTINGTON, IND.—Bids are asked until Sept. 24 for paving approximately as follows: 17,000 sq. yds. of brick, asphalt or macadam pavement, 10,000 lin. ft. of curbing, 6,000 ft. of sidewalk and 13,000 cu. yds. of excavation, work to commence in April, 1902. Frank Guthrie, Cy. Engr.

INDIANAPOLIS, IND.—Bids are asked until Sept. 23 by the board of public works for cement sidewalks in three streets and grading and graveling the roadway.

MICHIGAN CITY, IND.—Bids are asked until Oct. 14 for 4,400 yds. of macadamizing in E. 7th St. and for 6,600 yds. of brick paving in Baker Ave. H. M. Miles, Cy. Engr.

DETROIT, MICH.—The following are the lowest bids received for asphalt paving: American Contracting Co., in Randolph St., $11,146; in Cass Ave., $13,740. J. Porath, in Kirby Ave., with cedar $16,957, with Medina curb, and $16,446 with Berea curb.

TRAVERSE CITY, MICH.—The township of Peninsula has voted to issue $20,000 in highway improvement bonds to aid in the construction of an 18-mile electric railway.

ROCK ISLAND, ILL.—Bids are asked by the city clerk until Sept. 25 for 7½ blocks of brick paving in 21st St. W. Neichler, Cy. Engr.

KENOSHA, WIS.—The A. E. Rutledge Co., Rockford, Ill., has been awarded a contract for paving in Milwaukee Ave. with brick, at $32,813.

ST. PAUL, MINN.—Bids are asked until Sept. 23 for 1,075 sq. yds. of brick on concrete paving and for grading requiring 3,692 cu. yds. of excavation, in two streets. C. H. Bronson, Clk. Bd. Pub. Wks.——The final order for paving Selby Ave. with asphalt has been passed.

ST. JOSEPH, MO.—An ordinance has been introduced for paving in Ridenbaugh St. and instructing the city engineer to advertise for bids for the work. Frank W. Beach, Cy. Clk.

BEAUMONT, TEX.—T. C. King, Cy. Clk., writes us that bids will be asked in about 60 days for about 35,000 sq. yds. of brick paving, at an estimated cost of $2.40 per sq. yd. M. A. Orlopp, Designing Engr.

DENVER, COLO.—Bids are asked until Oct. 16 for improving 7,700 ft. of roadway and a gateway at Fort D. A. Russell, Wyo. Maj. J. W. Pope, Chf. Q. M., U. S. A.

SEATTLE, WASH.—Ordinances have been passed for grading in five streets, at an estimated cost of $1,200.

WALLA WALLA, WASH.—Press reports state that the proposed route to the penitentiary will be macadamized. The distance is 11 blocks.

FRESNO, CAL.—Press reports state that the first road to Kings River Canyon will be 23 miles long and will probably be built by Tulare and Fresno counties.

SUISAN, CAL.—A. Steiger has been awarded a contract for macadamizing road No. 79, at $3,200.

RENO, NEV.—Bids are asked until Sept. 25 for paving with asphalt and curbing with granite in Commercial Row. W. A. Fogg, Clk. Bd. County Comrs.

ST. JOHN, N. B.—The council has decided to call for bids for 12,000 yds. of sheet asphalt paving.

TORONTO, ONT.—Bids are asked by Mayor O. A. Howland for constructing asphalt and cedar block pavements, concrete and brick sidewalks and pipe sewers in several streets.

WINNIPEG, MAN.—Bids are asked until Sept. 19 for constructing a cedar block pavement in Rosie St., a macadam pavement in four streets and granolithic walks in two streets. C. J. Brown, Cy. Clk.

MANUFACTURING PLANTS.

SYRACUSE, N. Y.—The National Railway Spring Co. has been granted a permit to erect an extensive addition to its plant.

TROY, N. Y.—The Standard Signal Co. will move its plant from Green Island to Brookside. R. T. Cary has been awarded a contract for constructing a foundry, 300 x 60 ft. The company intends during the coming year to erect additional and separate fireproof buildings for a power house, forge shop, machine shop, carpenters' shop, storehouse and office. All tools and machinery, except the large steam hammers, will be operated by electrical power. New York office, 36 Wall St. The Trojan Car Coupler Co. will be located in the same plant.

CAMDEN, N. J.—M. P. Wells & Co., Philadelphia, Pa., have been awarded a contract for building a plant for the Whitney Car Wheel Co., at $48,885. Work will commence at once.

CLIFTON, N. J.—Factory buildings covering a ground space of 45,000 sq. ft. are in process of construction for the Mutual Match Co. Harry Stoll, Joseph Cohen and Cassel Cohen, all of New York, are interested.

PASSAIC, N. J.—The Passaic Rolling Mill Co. has decided to expend $500,000 in increasing the capacity of its plant. A reheating furnace, with a charging machine and two 30-ton smelting furnaces, will be installed, an electric power house erected and other improvements made.

GERMANTOWN, PA.—Harry B. Shoemaker & Co. have been awarded a contract for erecting a 3-story brick and stone factory building, at $10,000.

JOHNSTOWN, PA.—The Cambria Steel Co. is having plans prepared for a universal plate mill. The mill will produce plate from ¼-in. to 1½ ins. in thickness, up to a width of 9 ft. Construction will commence in a short time.

McKEESPORT, PA.—The McKeesport Mfg. Co. has been organized to manufacture iron and steel. John W. Painter, E. P. Douglass, J. C. Smith are interested.

PHILADELPHIA, PA.—The Midvale Steel Works will build a 4-story and basement steel and brick machine shop, 50 x 100 ft., in addition to its plant in Nicetown. Plans will be sent out in about two weeks. The building will cost about $20,000.

PITTSBURG, PA.—The American Bridge Co. contemplates erecting an extensive plant in this city, which, when completed, will employ about 4,000 men.——Reports state that the American Locomotive Co. has set aside $1,000,000 for enlarging some of the constituent plants.

GASTONIA, N. C.—The Luray Cotton Mill Co. has been reorganized, and will have a plant costing $1,500,000, operating 50,000 spindles and 1,680 looms.

ANNISTON, ALA.—The plant of the Woodstock Iron Co. is to be enlarged and greatly improved. Furnace No. 3 will be rebuilt and its capacity increased to 300 tons per day. It will be equipped with an automatic skip. The company will also install an electric plant. J. W. Woolfolk, Gen. Mgr.

KNOXVILLE, TENN.—Architect Hammersburg is preparing plans for a $500,000 plant for the Knoxville Iron Co. The plans will be completed in about a month.

STEUBENVILLE, O.—The Pope Tin Plate Co. has secured a site and will build a plant to cost $500,000, and which will employ from 600 to 700 men. The contract for the structural iron buildings has been let.

ANDERSON, IND.—Reports state that the Indiana Brick Co. has closed a contract for the erection of a $75,000 plant near this city.

MITCHELL, IND.—The Lehigh Portland Cement Co., Allentown, Pa., will erect a $40,000 cement mill in this city. An electric light plant will be installed, using 40 arc and 250 incandescent lights. Work on the plant will be started within three weeks. About 300 men will be employed.

WYANDOTTE, MICH.—Reports state that the Michigan Alkali Co. is about to begin enlarging its plant. A battery of coke ovens, with a capacity of 100 tons per day, will be put in. The total cost of improvements now contemplated will reach about $400,000. J. B. Ford, Jr., is interested.

CEDAR RAPIDS, IA.—The T. G. White Cereal Co. has been incorporated, with $60,000 capital, and will erect a fireproof brick mill, 30 x 60 ft. T. G. White, Secy. and Mgr.

KANSAS CITY, MO.—The Metropolitan St. Ry. Co. has taken out permits for two repair shops, to cost $40,000 each. The company owns 13 acres of land and intends to build extensive machine, repair and paint shops and eventually to build its own cars.

SPOKANE, WASH.—Reports state that the United States Marble Co. will make improvements to cost $20,000. A dam will be put in near the quarry and 300 HP. developed. C. R. Gifford, Mgr., will go East to purchase the machinery, which will be operated by electricity.

TACOMA, WASH.—The Allis-Chalmers Co., Spokane, has been awarded a contract for machinery for the new copper furnace to be erected. The contract price is about $47,000. The company will put in a converting plant in addition to the matteing furnace.

ASTORIA, ORE.—Reports state that W. W. Whipple and others are planning to erect a $100,000 sawmill at an early date.

SALT LAKE CITY, UTAH.—It is reported that the Salt Lake shops of the Rio Grande R. R. Co. will be enlarged to double their present capacity, at a cost of $250,000.

MISCELLANEOUS CONTRACTS

KEROSENE ENGINE.—Coronado, Cal.—S. N. Caceres, Box 54, is in the market for an 8-HP. kerosene pumping engine.

WHARF.—New Orleans, La.—J. H. Gardner has been awarded the contract for building the Henderson St. wharf, at $36,205.

PIER.—Ottawa, Ont.—Bids are asked until Sept. 27 for constructing an extension to the south pier at Bayfield. Fred. Gelinas, Secy. Dept. Pub. Wks.

DOCK.—Ashland, Wis.—Local press reports state that the Wisconsin Central Ry. Co. will rebuild its ore dock this winter, at a cost of about $100,000.

LOG TRUCKS.—Greensburg, Pa.—McFarland & Bollinger are operating a 36-in. gage lumber railway and wish catalogues from manufacturers of log trucks.

CEMENT.—Ottawa, Ont.—Bids are wanted for furnishing 3,600 barrels of Portland cement for the Soulanges Canal. L. K. Jones, Secy. Dept. of Railways and Canals.

DRILLING OIL WELLS.—El Paso, Tex.—Bids are wanted by the Beaumont & El Paso Oil Co. for drilling one or more wells, 1,500 ft. deep or less, in Pecos county.

PIPE COVERING.—Randall's Island, N. Y.—Bids are asked until Sept. 27 for furnishing and installing pipe covering at the house of refuge. Alexander E. Orr, Pres. Bd. of Mgrs.

TELEPHONE LINE.—Tampa, Fla.—Press reports state that the Peninsula Telephone Co. is preparing to build a line to Thonotosassa and from there to Plant City and other points.

FLOATING DERRICK.—Norfolk, Va.—Snare & Triest, New York, N. Y., have been awarded a contract for constructing a floating derrick of 120 gross tons for the navy yard, at $64,950.

PATROL BOAT.—Columbus, O.—Bids are asked until Sept. 24 by the Ohio fish and game commission, care of auditor of state's office, for constructing a patrol boat for use in Lake Erie.

OIL PIPE LINE.—Taylor, Tex.—The Merchants' & Mechanics' Oil Co. intends to build a 500,000-barrel tank at Beaumont and a pipe line from the well to the tank; also a loading station. S. H. Spangler, Pres.

DRAINAGE CANAL.—Stockton, Cal.—The supervisors intend to complete the Homestead drainage canal this year, and the county surveyor has been instructed to prepare plans and specifications for the work.

TELEPHONE SYSTEM.—Canandaigua, N. Y.—The Inter-Ocean Telephone & Telegraph Co. has been granted a franchise and will establish an exchange. The plant will cost $10,000, and is to be completed in one year.

DRAINAGE DITCHES.—St. Paul, Minn.—Bids are asked until Sept. 26 for constructing about 19 miles of drainage ditches requiring 218,186 cu. yds. of excavation. P. E. Hanson, Member Bd. of Audit, Office Secy. of State.

RETAINING WALL.—Milwaukee, Wis.—Sponholz & Co. have been awarded a contract for constructing a concrete retaining wall, 192 ft. long, 10 ft. thick and 35 ft. high, at about $20,000. About 3,000 barrels of cement will be used.

DAM.—Pittsfield, Mass.—Bids are asked by the board of public works until Sept. 27 for completing the construction of a dam at Ashley Lake, Washington, Mass., as stated in our advertising columns. E. A. Ellsworth, Consulting Engr.

LAUNDRY MACHINERY.—New York, N. Y.—Bids are asked until Sept. 24 for furnishing and installing laundry machinery for the Manhattan State Hospital, Central Islip. Henry E. Howland, Pres. Bd. of Mgrs., 1 Madison Ave.

BORINGS.—New York, N. Y.—Bids are asked until Sept. 26 for making diamond drill borings in the East River, as stated in our advertising columns. Wm. Barclay Parsons, Ch. Engr. Rapid Transit R. R. Comrs., 320 Broadway.

FURNACES, ETC.—Omaha, Neb.—Bids are asked until Oct. 4 by the supervising architect, Treasury Department, Washington, D. C., for resetting five horizontal tubular steam boilers and installing smokeless furnaces in the Federal Bldg.

PIER.—Baltimore, Md.—Armstrong & Printzenhoff, Philadelphia, Pa., have been awarded a contract for constructing a pier for the Northern Central Ry. at Canton, 120 × 934 ft. The Maryland Dredging Co. has the contract for dredging.

REVENUE CUTTERS.—Washington, D. C.—Bids are asked until Oct. 12 for constructing two steam propeller steamers, one for duty at Boston, Mass., and the other for duty on the St. Mary's River, Mich. O. L. Spaulding, Acting Secy. Treas.

DITCH.—Litchfield, Conn.—Bids are asked at once for constructing a side hill ditch, 2,500 ft. long, averaging 15 ft. wide at top, 3 ft. wide at bottom and 4½ ft. deep, as stated in our advertising columns. Henry S. Munroe, Engr. Litchfield Water Co.

HARBOR IMPROVEMENTS.—Grand Rapids, Mich.—Reports state that congress will be asked to authorize the enlargement of the harbor at Petoskey. Nearly $100,000 of the original appropriation is unexpended. The dock and breakwater will be extended.

TUNNEL.—Tacoma, Wash.—Reports from Juneau state that the management of the Treadwell mines is contemplating driving a crosscut tunnel from Snowslide Gulch to Yankee Basin, a distance of 6,000 ft. A survey for the work has been completed.

CABLE.—New York, N. Y.—Bids are asked until Sept. 23 for furnishing 22,000 ft. of underground cable of the following conductor: 10,000 ft. of 10-conductor, 10,000 ft. of 12-conductor and 2,000 ft. of 4-conductor. John J. Scannell, Fire Comr., 157 E. 67th St.

LIGHT-HOUSES.—Mobile, Ala.—The following bids were received on Sept. 9 by A. N. Damrell, Light-House Engr., for constructing a lighted beacon in Key West Harbor and removing two lighted beacons in Choctawhatchee Bay, Fla., and re-erecting them at Bahia Honda Harbor and Long Key Shoal: Peter G. Knight, Key West, Fla., $3,200; Alfred Atchison, Key West, Fla., $3,350; J. A. Weatherford, Key West, Fla., $3,500.

DOCKS, ETC.—Ashtabula, O.—Reports state that the Pennsylvania R. R. Co. has purchased 14 acres of beach on the lake front west of the entrance to Ashtabula and will at an early date build docks and make other improvements. Coal handling machinery will be erected.

BULKHEAD.—Jersey City, N. J.—The street and water board has adopted Chief Engineer Van Keuren's revised plans for improving the eastern half of South Cove, and will call for bids when specifications have been prepared. A bulkhead wharf will be constructed instead of extending piles, as originally planned.

U. S. POSSESSIONS AND CUBA

SEWERS.—Santiago, Cuba.—Bids are asked until Oct. 21 for the construction of sewers in the city of Santiago, as stated in our advertising columns. Plans can be seen and specifications obtained at the office of Engineering News Publishing Co., 220 Broadway, New York. Capt. S. D. Rockenbach, 12th U. S. Cavalry, Engineer Officer.

SEWERAGE AND PAVING.—Havana, Cuba.—Bids are asked until Oct. 23, postponed from Sept. 25, for a sewerage system and the street paving of the city of Havana, as stated in our advertising columns. Specifications may be seen at the office of Engineering News Publishing Co., 220 Broadway, New York. W. J. Barden, Corps of Engineers, Ch. Engr. City of Havana. Miguel Gener, Mayor.

SEWERAGE AND PAVING.—Havana, Cuba.—Lieut. W. J. Barden, Ch. Engr., City of Havana, informs us that the first three lines of paragraph 81, specifications for the sewerage system and street paving in Havana, should be changed to read as follows: "The quality of asphalt to be used should be of best quality of refined asphalt from the Island of Trinidad, Bermudez, Venezuela or Alcatras from California; asphalt known as 'rock asphalt' will not be used."

WATER-WORKS.—Honolulu, H. I.—The contract for the completion of the Diamond Head reservoir has been awarded to J. R. Higby at $6,317. Others bidders were: J. F. Bowler, $8,599; John Walker, $7,397; H. F. Bertlemann, $7,390; Concrete Construction Co., $7,150.——Business men are taking up the matter of a water supply. T. F. Davidson suggests the erection of three or four derricks with ample storage tanks in downtown districts.

CANE-LOADING MACHINES, ETC.—Honolulu, H. I.—W. W. Ricker is reported to have passed through San Francisco, Cal., on his way to Cleveland, O., where he will arrange for the manufacture of cane-loading machines to be used in the Hawaiian Islands.——Superintendent Boyd of the Dept. of Public Works, of this city, has outlined a plan for a new road from Manoa road to and around the top of Sugar Loaf, to connect with Tautalus. The council has the matter under consideration.

BRIDGE.—San Juan, Porto Rico.—The following bids were received by the president of the board of public works, San Juan, for the construction of a 26-meter concrete masonry bridge over the River Mavilla, near Corozal, on the road from Toa Alta to that place: Marix & Co., San Juan, $28,000; Roque Paniagua, San Juan, $19,700; Andres G. Canton, Naranjito, P. R., $18,000; J. Santiago Roble, Rio Grande, P. R., $18,000; Carlos de Ereño, Manati, P. R., $16,450; Ricardo G. Camba, Rio Piedras, P. R., $14,000.

FOREIGN CONTRACTS AND EXPORT NEWS

WARSHIP.—Russia.—Dispatches from St. Petersburg state that the Russian government has decided to build five battleships, each of 20,000 tons, in Russian shipyards.

WATER-WORKS.—Almolya, Mex.—The residents of this place are desirous of having a water-works system and are ready to co-operate with some corporation that will undertake the work.

BRIDGE.—Bale, Switzerland.—The department of public works, Dale, will receive bids, accompanied by plans, until Dec 4 for the construction of a bridge over the Rhine River. Address the Secretary.

WATER-WORKS.—Monaghan, Ireland.—Bids are wanted until Oct. 5 for supplying and laying about four miles of 6-in. and 8-in. cast-iron pipe, together with valves, hydrants, etc. J. H. M. Wilson may be addressed at Monaghan.

ELECTRICITY SUPPLY WORKS.—Singapore, Straits Settlement.—The municipal commissioners are reported to have voted $75,000 to be expended upon electrical supply works, and have, according to reports, consulted Burstall & Monkhouse, Engrs., of Singapore, as to the most suitable system.

PLANS FOR BRIDGES.—St. Petersburg, Russia.—Competitive plans are asked until Sept. 1, 1902, Russian calendar (Sept. 14 our calendar), for two bridges to be erected over the Great Neva River, as stated in our advertising columns. Address St. Peterbrug, Gorodskaja Uprawa, St. Petersburg.

LAUNDRY MACHINERY.—Merida, Yucatan.—Ysac Caceres Lara, of Merida, is now in New York for the purpose of purchasing considerable machinery, including a complete steam laundry equipment, which is to be installed at the Yucatan capital. Mr. Lara will remain about 10 days, and while in New York he will stop at the Hotel Chelsea, West 23d St.

ELECTRIC MINE EQUIPMENT.—Iglesias, Sardinia.—Signor G. Merlo, Chief Mining Expert of the Sardinian Mining Association, Iglesias, may be addressed by parties desirous of furnishing the equipment, etc., for all the mines controlled by the association in Sardinia, which are to be operated by electricity generated from water power. A 3,000-HP. plant is to be built.

RAILWAY.—Buenos Ayres, Argentina.—Chief Engineer Pease of the Buenos Ayres & Rosario Ry., is now stopping at the Hoffman House, New York city. Mr. Pease's mission to the United States is said to be for the purpose of placing contracts for quantities of machine tools and electrical equipment to be installed in the company's workshops. His purchases will aggregate about $250,000.

TUNNEL.—Glasgow, Scotland.—James Barton explained the proposed tunnel between Scotland and Ireland to the Engineering Congress on Sept. 5. The committee which considered the routes has decided that the most feasible was the one from a projecting portion of Wigtownshire, where the Scotch coast is within 21 to 25 miles from the coast of County Antrim. The cost of the undertaking is estimated at £10,000,000.

RAILS, ETC.—London, England.—The British Electric Traction Co., Dorington House, Norfolk St., Strand, London, W. C., is reported to have called for bids for the supply of 5,000 tons of steel grooved girder tramway rails, fish plates, etc. It is further stated that the company will probably soon contract for equipment, machinery, etc., for electric traction systems in England, on which work is now actively engaged upon.

WATER TRAP.—Madrid, Spain.—Competitive bids are wanted by the municipality until Oct. 22 for the best model of a trap for covering openings through which the water runs from the public streets into the sewers. Two prizes will be offered, the first to be $579 and the second $193. Similar prizes are also offered for the best model of a filter adaptable to street stand-pipes, to be capable of filtering 800 liters per hour.

IRRIGATION CANAL.—Mexico.—Press reports state that Senor Luis Pimental will construct an irrigation canal from the Chiautla River to Tenango in the state of Morelos. Preliminary work has already been started. Julius Von Thaden, a German civil engineer, is in charge of the work. The canal will be 50 kilometers in length, and will cost about $100,000. It has a tunnel 800 meters long and three cuts of 100, 145 and 175 meters, respectively.

DRY DOCK.—Syra, Greece.—A communication from the "Forges et Chautiers de Syra" to the "Board of Trade Journal" dated Aug. 14, states that no bids were received by the government for the construction of the dry dock at this place, the date set for the opening. This unsatisfactory result is said to be due to the unsuitable nature of the place selected, Pidali. The "Forges et Chautiers" recommend that the dock be built at Keortan, where the workshops and arsenals are located.

CAR PLANT.—England.—The J. G. Brill Co., builders of electric cars, will establish a plant in England, and John S. Brill, Secy., is now looking for a location for the new works. Three places are under consideration: Preston, in Lancashire; the Midlands, near Birmingham, and a place in the vicinity of London. G. Martin Brill, Pres., says: "It is only within a few days that we definitely decided to build. When Mr. Brill returns from England in about two weeks, all details will be settled, so as to enable us to start the construction of the works almost immediately. It is our intention to devote ourselves exclusively to the manufacture of trucks for the British market. The equipment will be of American make."

RAILWAY EQUIPMENT.—Brussels, Belgium.—The Belgian Minister of Railways, Posts and Telegraphs has just approved of a project for the purchase of locomotives, tenders and large detached pieces of rolling stock material. A sum of about 15,000,000 francs will be spent on these purchases, which will comprise 100 goods engines for heavy trains, 20 high-speed engines, the same as those already bought in England, to be utilized for the traction of international expresses, and 35 "mixed" engines; also 180 tenders of 18,000 liters capacity, 100 of 13,000 leters and 60 of 9,000 liters, as well as sets and pairs of wheels for locomotives and tenders. Another proposition provides for the purchase of 600 to 700 carriages, 150 luggage vans and 1,200 to 1,500 goods wagons. This proposal is at present under the consideration of the Chief of the Railway Department.

ELECTRIC RAILWAY.—Carlsbad, Bohemia.—Consul Mahin, at Reichenberg, reports that an electric street railway company has been formed at Carlsbad and negotiations with supply and construction firms are invited. Carlsbad is as yet devoid of any kind of public conveyance, except cabs and hotel omnibuses, though it has a permanent population of 15,000, to which are added between April and October of every year 40,000 or more sojourners. The city is spread out along the Tepl River a distance of several miles from the railway station to the Posthof, between which points street-car communication would prove a great boon to the permanent and sojourning population. Branch lines on side streets leading to the villas and hotels on the adjacent heights would also be practicable. Communications addressed to the Elektrische Strassenbahngesellschaft, Carlsbad, Bohemia, would reach the promoters of this project.

ELECTRIC TRAMWAYS.—Auckland, New Zealand.—The contract for the boiler equipment for the Auckland Electric Tramways Co., Ltd., of Auckland, has not yet been placed. The new system will entail an initial expenditure of about $1,500,000. It will be 20 miles in length, double-tracked for a greater portion of the way, and will operate 50 cars. The construction contract has been secured by J. G. White & Co. (Ltd.), of 23a College Hill, London, E. C., which concern is closely identified with J. G. White & Co., Columbia Bldg., 29 Broadway, New York. The power house will be equipped with three generators of 300-K-W. each, also switchboard and all accessories manufactured by the General Electric Co. The generators will be directly connected to 475-HP. horizontal cross-compound condensing engines of British make, and will be supplied by Cole, Marchens & Morley (Ltd.). The Lorain Steel Co., Lorain, O., will furnish the company with 4,000 tons of rails. Fifty motor equipments have been ordered of the General Electric Co. The car bodies are expected to be built in Australia, because of the cheapness of wood in that part of the world.

WATER SUPPLY.—Mexico City, Mex.—A syndicate of New York capitalists has purchased the Mackenzie concession for supplying the City of Mexico with potable water. Mr. Warren H. Loss is the contractor; Geo. M. Brill, Ch. Engr. for the syndicate; Ernest Abs Hagen, Consulting Engr. The object is to supply 2,000 liters per sec. of water to the City of Mexico. The springs at Alamoloya, from which the supply will be taken, are nearly 43 miles from the city. The water will be pumped in three stages to a height of 1,456 ft.; length of canals and pipe lines, 52.2 kilometers. The water after being elevated over a ridge of mountains will in descending on its way to Mexico drop a total of 2,214 ft., developing 10,400 HP. (effective) to be used for distribution in the City of Mexico. The power necessary for pumping purposes will be obtained at the River Matinaltenango, over 24 miles distant from the Alamoloya Springs, where a total of 13,000 HP. (effective) is obtained from three waterfalls under heads of from 800 to 1,100 ft. The total length of transmission of electrical energy will be 70 miles. Work will be commenced immediately upon the return of the contractor and engineers from a tour of inspection, now under progress. ——Reports from Mexico City state that the Yuriria Lake is to be utilized for irrigation purposes, and that several irrigation canals will be utilized from it to the various agricultural sections in that vicinity.

RAILWAY EQUIPMENT.—Tokio, Japan.—Chief Engineer Enyo, of the Tokio Deusha Tetsudo Co., who for some time past has been in the United States for the purpose of securing quotations from American concerns for the equipment of the company's projected electric traction system, has just dispatched all the necessary data to the directors of the company in Japan, and it is expected that confirmation as to the purchase of equipment will be received by cable within the next 30 days. The General Electric Co., it is stated, has submitted a proposition for the equipment of the projected road. The Tokio company's system will run in the heart of the Japanese city. It will be double-tracked and 12 miles in length. Three hundred cars will be utilized on commencing operations. While the car bodies, owing to the cheapness of wood in Japan, will be manufactured there,

the requisite trucks and motor equipments will be purchased in the United States. About $1,000,000 will be expended in the initial equipment of the road. The generating plant will have a capacity for developing 4,000 HP. About 2,500 tons of rails will be utilized. As the Tokio company, in view of the monetary stringency at present existing in Japan, is desirous of obtaining an extended credit for its purchases here, financial arrangement, it is reported, have been made through the Japanese banking house of Mitsui & Co., whose New York offices are at 445-7 Broome St., for the handling of the deal. Mr. Enyo will remain here for several months to attend to the details in connection with the contract and the shipment of the machinery, etc. He can be reached through Mitsui & Co., or while in New York may be found at the office of McIntosh, Seymour & Co., Havemeyer Bldg., 26 Cortlandt St.

CONTRACT PRICES.

ROAD CONSTRUCTION.—Boston, Mass.—The following bids were received by A. B. Fletcher, Secretary Massachusetts Highway Comrs., 20 Pembroke Square, Boston, on Sept. 5 for building sections of state highway:

BIDS RECEIVED AT BOSTON, MASS., SEPT. 5, 1901, FOR BUILDING SECTIONS OF THE STATE HIGHWAY.

Quantities.		Towns of Palmer & Monson. A. D. Bridge, Hazardville, Conn.	Wm. N. Flynt G. Co., Monson, Mass.*	Templeton.	A. J. Wellington, Boston, Mass.*		Whately. A. J. Wellington, Boston, Mass.*	A. D. Bridge, Hazardville, Conn.
Excavation	500 cu. yds.	$0.50	$0.45	900 cu. yds.	$0.40	2,050 cu. yds.	$0.30	$0.40
" borrow	1,350 " "	.55	.45	500 " "	.50	3,350 " "	.40	.40
" ledge	15 " "	2.00	3.00	10 " "	3.00	5 " "	1.00	1.00
Rubble masonry laid dry	48 " "	6.00	5.00	6 " "	8.00	54 " "	6.00	6.00
Cement masonry	24 " "	12.00	10.00	14 " "	12.00	32 " "	12.00	12.00
Gravel	400 " "	.75	.65	450 " "	1.00	.....	...	...
Shaping	4,525 sq. yds.	.03	.03	3,340 sq. yds.	.03	3,500 sq. yds.	.03	.03
Broken stone	1,250 tons	2.00	2.05	800 tons	1.80	1,250 tons	1.80	1.90
12-in. vitrified clay pipe		...	...	18 lin. ft.	.70	.....	...	...
24-in. vitrified clay pipe		...	...	18 " "	2.50	10 lin. ft.	2.50	2.50
12-in. iron pipe		...	...	48 " "	1.80	.....	...	...
24-in. iron pipe		...	...	24 " "	4.00	24 lin. ft.	4.00	4.00
Guard rail	2,500 lin. ft.	.25	.25	225 " "	.30	150 " "	.30	.25
Side drains		...	...	1,250 " "	.40	.....	...	...
Stone bounds	22 each	...	2.00	8 each	2.00	6 each	2.00	1.50
Catchbasins		...	...	1	20.00	.....	...	...
Rubble masonry laid in cement		...	...	46 cu. yds.	10.00	.....	...	...
Total		$5,159	$4,985		$4,150		$5,201	$5,521

Quantities.		Chester. M. A. Fish, Huntington.*	Amos D. Bridge.	Wm. N. Flynt Granite Co.		Taunton. A. J. Welling-ing.†	Charles Mills, Jr., Boston.‡
Excavation	1,300 cu. yds.	$0.50	$0.55	$0.50	200 cu. yds.	$0.50	$0.30
" borrow	50 " "	.50	.70	.65	850 " "	.60	.50
" ledge	10 " "	3.00	3.00	3.50	.....	...	...
Rubble masonry laid dry	49 " "	6.00	6.00	7.00	28 cu. yds.	6.00	...
Cement masonry	47 " "	10.00	12.00	12.00	11 " "	15.00	...
Gravel	100 " "	.80	1.00	1.00	40 " "	.80	...
Shaping	4,296 sq. yds.	.03	.03	.03	1,807 sq. yds.	.03	...
Broken stone	1,600 tons	1.95	2.00	2.00	600 tons	2.00	...
12-in. vitrified clay pipe	36 lin. ft.	1.25	.75	.85	.....	...	...
18-in. vitrified clay pipe	6 " "	2.50	1.25	1.25	.....	...	...
12-in. iron pipe	48 " "	1.75	2.00	1.75	.....	...	...
18-in. iron pipe	48 " "	3.00	3.00	3.00	.....	...	...
Guard rail	850 " "	.24	.25	.25	500 lin. ft.	.30	...
Stone bounds	18 each	2.00	2.00	2.00	2 each	2.00	...
Rubble masonry in cement		...	...	...	46 cu. yds.	10.00	...
Total		$5,326	$5,590	$5,568		$2,643	...

Quantities.		Town of Woburn. A. J. Wellington.	Leahy & Meskill, Everett.	J. A. Gaffey, Medford.*	Rafello Surtello, Boston.	Barnes-Ruffin Co., Boston.	Ferrante & Maguire, W. Bridgewater.	Murphy & Gallagher, Clinton.	J. J. Falvey, Somerville.
Excavation	1,000 cu. yds.	$0.50	$0.40	$0.38	$0.70	$0.55	$0.45	$0.48	$0.65
" ledge	50 " "	3.00	1.70	1.50	3.50	2.50	2.00	2.00	3.00
Rubble mas'ry laid dry	23 " "	6.00	5.75	4.00	8.00	2.75	6.00	5.00	7.50
Cement masonry	18 " "	15.00	7.00	8.00	20.00	6.00	12.00	10.00	20.00
Gravel	900 " "	.80	.45	.45	.75	.25	.55	.65	1.25
Shaping	6,616 sq. yds.	.03	.03	.02	.04	.035	.025	.03	.03
Broken stone	1,400 tons	1.70	1.75	1.48	2.15	2.20	1.50	1.65	2.10
12-in. vitified clay pipe	30 lin. ft.	.80	.75	.65	1.50	.75	.75	.65	1.10
15-in. vitified clay pipe	66 " "	.90	.85	.90	2.00	1.00	.90	.85	1.50
16-in. iron pipe	60 " "	2.25	3.00	2.50	4.00	2.50	2.00	3.00	3.00
Guard rail	225 " "	.30	.25	.20	.40	.30	.24	.25	.30
Side drains	1,000 " "	.50	.75	.35	.75	.35	.35	.50	.55
Stone bounds	36 each	2.00	1.65	1.40	4.50	1.50	2.00	2.00	3.00
Catchbasin		30.00	55.00	20.00	35.00	40.00	25.00	25.00	25.00
Total		$5,244	$4,976	$3,995	$6,823	$5,133	$4,367	$4,877	$6,658

*Contract awarded. †Bids rejected. ‡Informal.

SEWERS.—Plainfield, N. J.—The following bids were received by Andrew J. Gavett, Cy. Surv. and St. Comr., on Sept. 9, 1901, for storm sewers. The contract will be let to C. M. Meeker, Plainfield, for about half the work; the remainder will not be constructed at present; cuts, from 3 to 11.5 ft.: (1) Harrison Construction Co., Newark; (2) C. M. Meaker, Plainfield; (3) Patrick T. Plunkett, Jersey City; (4) John Driscoll, Orange:

		1.	2.	3.	4.
15-in. sewer	478 lin. ft.	$0.78	$0.64	$0.85	$0.66
18-in. "	1,630 " "	1.00	.76	1.00	.85
24-in. "	1,910 " "	1.79	1.36	1.75	1.71
Manholes, over 6 ft.	3 each	35.00	38.00	42.00	37.00
Under 6 ft.	5 "	30.00	26.00	30.00	27.00
15-in. branches	3 "	2.00	2.12	1.00	1.00
18-in. "	2 "	2.50	2.67	1.35	1.37
24-in. "	1	5.00	5.10	2.50	2.60
Catchbasins	7 each	28.00	22.50	55.00	34.30
Inlets	6 "	22.00	18.00	25.00	14.80
12-in. connections	250 lin. ft.	.40	.52	.65	.43
10-in. "	195 " "	.35	.46	.60	.36
Lower'g 24" sewer	75 " "	1.00	.36	.90	.32
Total		$6,264	$4,915	$6,545	$5,756

SHALE BLOCK PAVING.—Ashtabula, O.—The following bid was received at the Board of State Engineers, New Orleans, on Aug. 31, 1901, for shale block paving. The bid was submitted by E. G. Putnam and H. Starkweather, Ashtabula, whose total was $5,672, and was accepted: Excavation, 770 cu. yds., 30 cts. a cu. yd.; 6-in. concrete foundation, 2,388 sq. yds., 85 cts. a yd.; 1.5-in. sand cushion, 2,388 sq. yds., 3 cts; Metropolitan shale paving blocks, 2,388 sq. yds., 76 cts.; laying pavement, 2,388 yds., 20 cts.; dressing and setting curb, 1,232 lin. ft., 36 cts.; curbing, 5 x 16-in., 76 lin. ft., 32 cts.; curbing, 5 x 20-in., radius of 8 ins., 37.21 lin. ft., 50 cts.; same radius of 11-in., 22.63 lin. ft., 50 cts.; same, 15-in. radius, 7 lin. ft., 50 cts.; 10 corner blocks, 5 x 20 ins., $2.50; 4-in. sewer pipe, 1,400 lin. ft., 5 cts.; 9-in. sewer pipe, 82 lin. ft., 14 cts.; eight 9-in. Y branches, 62 cts., each; one 9-in. opening, 62 cts.; 10 elbows and curves, 57 cts.; 4-in. pipe underdrain, 1,400 lin. ft., 12 cts.; relaying sidewalks, 1,135 sq. ft., 3 cts.; 9-in. sewer connections, 68 lin. ft., $1.60; 7 sewer inlets, $12; setting same, $1.

STREET IMPROVEMENT.—Washington, D. C.—The following bids were received by Morris Hacker, Supt. Roads, District Bldg., on Sept. 7, for improving Connecticut Ave., west of Rock Creek, (1) grading below present grade, 5,300 cu. yds.; (2) grading above present grade, 14,000 cu. yds.; (3) removing and replacing macadam, 3,200 cu. yds.; (4) totals. Bid of Geo. B. Mullin, Tenleytown, D. C., accepted: Geo. B. Mullin, Tenleytown, (1) 77 cts., (2) 33 cts., (3) 50 cts., (4) $10,301; Lyons Bros., Brookland, D. C., (1) 89 cts., (2) 43 cts., (3) 63 cts., (4) $12,753; Coogan Bros. & Forschner, (1) $1, (2) 50 cts., (3) 60 cts., (4) $14,220.

PARK WORK.—Yonkers, N. Y.—The park commissioners received the following bids on Sept. 6 for work in Washington Park; (1) macadamizing paths, 15,000 sq. ft.; (2) brick set in concrete, 2,500 sq. ft.; (3) bluestone curbing, 1,000 lin. ft.; (4) asphalting paths: N. Mangini, (1) 6 cts. sq. ft., (2) 30 cts. sq. ft., (3) $1.25 lin. ft.; P. J. Flannery, (1) 10 cts., (2) 33 cts., (3) 40 cts., (4) 25 cts.; Molloy & Murray, (1) 6 cts., (2) 50 cts., (3) 90 cts.; Sicilian Asphalt Co., (4) 20 cts.; J. E. Pawson, (4) 18 cts. (accepted); Commonwealth Roofing Co., 24½ cts.

PAVING. — Omaha, Neb. — The board of public works received the following bids on Sept. 6, 1901, for paving 22d St. from St. Mary's Ave. to Howard: Asphalt—Barber Asphalt Co., $1.89 per sq. yd.; Grant Paving Co., $1.75. Brick—George R. Crandall, $1.49. Stone Block—Hugh Murphy, $1.70. A contract for grading Grover St. was let to George R. Crandall at 18.8 cts.

PAVING.—Kenosha, Wis.—The following are the bids received for paving Milwaukee Ave.: Harding & Nelson, Racine, $1.34 per sq. yd.; James Cape & Sons, $1.38; John O. Jones, $1.44; A. S. Rutledge & Co., $1.45; P. M. Galloway, $1.45; George L. Donnell, $1.44; Reichert Construction Co., $1.52.

LEVEE WORK.—New Orleans, La.—The following bids were received at the Board of State Engineers, New Orleans, on Sept. 10, 1901, for levee work; Walter H. Hoffman, Secy. State Work; (1) Dena Vista levee, approximate cu. yds., 40,000; (2) Cabin Teel, 53,000 cu. yds.; (3) Martin Loop, 60,000 cu. yds., Louisiana Levee District; (4) Harpers to Stockridge, 75,000 yds; (5) Carters to Vidalia, 75,000 cu. yds; (6) Vidalia to Moro, 175,000 cu. yds.; (7) Upper Green, 100,000 cu. yds.; (8) Pecan Grove to Henderson, 60,000 cu. yds.: Henry Kroninger & Franklin, Atherton, Ga., (1) 16 cts. per cu. yd.; Barr & O'Brien, Natchez, Miss., (3) 26 cts., (5) 13.23 cts., (6) [illegible] cts., (7) 15.73 cts.; H. F. Hodge, Natchez, (1) 12.48 cts. (accepted), (2) 11.97 cts. (accepted); Helgaren Bros. & Garland, Vicksburg, Miss., (2) 12⅞ cts., (3) 31.9 cts., (4) 39.75 cts. (accepted), (5) 15.45 cts., (6) 12.78 cts., (7) 20 cts.; R. J. Clark, Natchez, (2) 16.9 cts., (3) 35.25 cts., (4) 41 cts., (5) 12 cts. (accepted), (6) 11 cts. (accepted), (7) 15.4 cts. (accepted); M. L. Linnan, Simmeport, La., (2) [illegible] cts., (3) 23.74 cts. (accepted); Donovan & Daley, [illegible], La., (2) 12 1-3 cts., (3) 24.7 cts., (5) 13.4 cts., (6) [illegible] cts., (7) 16.7 cts., (8) 17.9 cts.; Robt. Nicholson, Villa Vista, La., (8) 12.97 cts. (accepted).

DREDGING.—Manitowoc, Wis.—Bids were received as follows by the council on Sept. 3, 1901, for dredging in the upper harbor: Manitowoc Dredging Co., scow measure, 12 cts. per cu. yd.; surface dredging, 15 cts. per cu. yd.; Starke Dredging Co., Milwaukee, scow measure, 10½ cts.; surface dredging, 14½ cts.; C. Simono, Two Rivers, scow measure, 10 cts.; surface dredging, 11¾ cts.

MACADAMIZING.—Marion, O.—The following bids were received by Ed. S. Ault, Cy. Engr., on Sept. 14, 1901, for macadamizing in this city; (1) Hofstetter & Downing, whose total was $9,111; (2) J. W. Scott, $9,505; (3) D. L. Crow, $9,509; (4) Kelly Co., $8,618 (accepted); (5) T. Carroll, $8,647; all bidders of Marion:

		1.	2.	3.	4.	5.
Grading	7,250 cu. yds.	$0.40	$0.30	$0.30	$0.25	$0.30
Curbing	4,470 lin. ft.	.40	.45	.55	.38	.51
Circular	266 " "	.50	.55	.48	.50	.63
Retaining stone	385 " "	.20	.30	.31	.20	...
Catchbasins	15 each	14.00	20.00	21.00	15.00	.25
4-in. tile	300 lin. ft.	.05	.06	.07	.06	.19
8-in. "	2,650 " "	.08	.13	.14	.12	.20
9-in. "	1,770 " "	.09	.13	.15	.15	.29
Macadam	2,750 cu. yds.	1.32	1.50	1.33	1.18	1.14

INDUSTRIAL NOTES.

THE WARNER-QUINLAN ASPHALT CO., Syracuse, N. Y., has moved its offices to 207 South State St.

THE PHILADELPHIA BRIDGE WORKS, Philadelphia, has moved its offices from 1321 Arch St. to 615 Real Estate Trust Building.

THE W. S. DICKEY CLAY MFG. CO., Kansas City, is reported to have a $125,000 contract for culvert pipe for railway work in Arkansas and Indian Territory.

THE LOMBARD GOVERNOR CO., Boston, is the new name of the Lombard Water-Wheel Governor Co. The offices have been moved to 36 Whittier St., Roxbury.

THE WATSON-STILLMAN CO., New York, has an order for 14 hydraulic presses for the new Manchester, England, plant of the Westinghouse Co., and orders for 16 presses for Germany.

CRANE CO., Chicago, announce that its new foundry will be in operation in about 30 days. It is fitted with two cupolas, electric traveling crane, etc., and will be used exclusively for very heavy work.

THE BUFFALO FORGE CO., Buffalo, N. Y., announces that J. I. Lyle has been appointed manager of its New York office. Mr. Lyle has for the past five years been connected with the Buffalo and Syracuse offices of the company.

THE RAYMOND CONCRETE PILE CO., 218 La Salle St., Chicago, has the contract for concrete piles and concrete footings for the new factory and foundry for the J. I. Case Plow Co., Racine, Wis., for which F. W. Perkins is the architect.

THE LIDGERWOOD MFG. CO., New York, has an order from Takata & Co., 10 Wall St., New York, for a complete hoisting outfit for one of the largest copper mines in Japan. The electrical equipment will be supplied by the Westinghouse Electric & Mfg. Co.

THE AMERICAN BLOWER CO., Detroit, reports a large business in the mechanical draft line. Recent orders include one from the New Amsterdam Gas Co., Ravenswood, L. I., and another from Wilkes-Barre (Pa.) Heat, Light & Motor Co. Each of these outfits embraces two 180-in. steel-plate fans with suitable direct-connected engines.

THE HARRISBURG FOUNDRY & MACHINE WORKS, Harrisburg, Pa., reports a large number of orders for its Harrisburg standard and 4-valve engines, including the following: One tandem compound of 250-HP. for the Sherwin-Williams Co., Cleveland; one 100-HP. simple engine for the town of Starkville, Miss.; two special engines, one of 100-HP. and the other of 130-HP., for the Newell Mfg. Co., New York, for Cuba; one 110 and one 90-HP. engines for Thompson & Starrett, New York; one 160-HP. engine for the Westinghouse Electric & Mfg. Co.; one 110-HP. engine for the American Sheet Steel Co.; one 350-HP. standard engine for the Lackawanna Iron & Steel Co., Vintondale, Pa.; two 150-HP. ideal engines for the Edw. Malley Co., New Haven, Conn.; two tandem compound ideal engines for Pennsylvania R. R. ferryboat; three engines of 110, 80 and 70-HP., respectively, for Hall & Grant, New York; one 800-HP. tandem compound engine for the Charleston (S. C.) Consolidated Ry., Gas & Electric Co.; one 400-HP. tandem compound for the Otis Elevator Co.

Mail Delivery Notice.

The first pages of Engineering News go to press on Monday each week, and the last pages, including "Wants," "Proposals" and "For Sale" cards, about Wednesday noon. All papers for Boston, Philadelphia, Washington and Greater New York should be received Thursday morning. All places East of the Mississippi should be reached by Friday afternoon.

If your paper is not received promptly, make a complaint in writing to your local post-office officials. This will cause an investigation, and the complaint will finally reach the office where the delay occurs.

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